

Catalogue of the papers and correspondence of

SIR DAVID CHILTON PHILLIPS FRS

(b.1924)

Compiled by Jeannine Alton

VOLUME III

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APPOINTMENTS AND PERSONAL

- ## STRUCTURE AND MEMBERSHIP

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| O.6 | Ideas and memoranda on organisation and role of ABRC, by members and officials 1982, 1983, 1984. |
| O.7 | Miscellaneous on secretariat 1985-86. |

Advisory Board for the Research Councils (ABRC)

Restructuring 1988-90

In response to the Morris report and ABRC discussions, Phillips put forward a letter to the Secretary of State (J. MacGregor) on 15 November 1989 recommending that 'the ABRC should be reconstituted as a smaller, more authoritative, body with a specific remit to promote greater harmonisation of the Research Councils' activities'. The advice was accepted on 19 January 1990, to take effect from 1 April. Phillips accepted the invitation to become the first Chairman of the new Board, on a full-time basis.

See B.46 for Phillips's notes on meetings and discussions on restructuring.

- O.8 Proposed study by Coopers & Lybrand for new model ABRC 1988.
- O.9 Official letters and papers on restructuring recommendation, membership of new Board, implications for Research Councils etc. 1989-90.
- O.10 Miscellaneous on Phillips's remit and grading as Chairman of new ABRC 1990.
- O.11 Miscellaneous on appointments to new ABRC and on support staff.
See also O.116-O.119.

Membership

- O.12 Correspondence and papers 1982-88 on membership of ABRC: recommendations, appointments, renewals, resignations, discussions on balance of interests, representation, rotation etc. Includes miscellaneous membership lists.
- O.13 Research Council appointments; papers for meeting with Chief Scientists to discuss appointments, especially to NERC and SERC, 16 January 1984.
- O.14 Miscellaneous correspondence 1983-93 on appointments to Research Councils and other public offices.

Advisory Board for the Research Councils (ABRC)

RESEARCH COUNCILS

Heads of the Research Councils (HORCs)

Correspondence and papers, some brief and formal, others more detailed, on meetings, discussions, possible research projects, funding bids etc. An important concern is inter-Council collaboration, with the concomitant establishment of Interdisciplinary Research Centres (IRCs).

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| O.15 | 1982-83. |
| O.16 | 1985-86. Mainly on Biotechnology as possible collaborative project within Research Councils. |
| O.17 | 1985-87. From September 1987 Phillips was invited to attend HORCs meetings on a regular basis. |
| O.18 | 1988. Mainly on IRCs and overlapping of Councils' interests in biological research. |
| O.19 | 1989. |
| O.20 | 1990-92. |
| O.20A | Agenda, papers and minutes of HORCs meetings September 1987 - April 1988, attended by Phillips and some with annotations by him. |

Agricultural Research Council/Agricultural and Food Research Council (ARC/AFRC)

- | | |
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| O.21 | Correspondence and papers September-November 1983, arising from reports on research and development in agriculture and food by the Joint Consultative Organisation (June 1982 and April 1983) and the House of Commons Select Committee (May 1983). The material centres on a meeting |
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Advisory Board for the Research Councils (ABRC)

with the Prime Minister 1 November 1983 to consider possible reorganisation and streamlining of agricultural research which had been considered over-administered. It includes letters and memoranda from individuals and institutions, briefings and suggestions from civil servants, note of the meeting.

- O.22 General correspondence and papers on ARC/AFRC affairs, meetings, structure and research, funding, appointments, a little social and personal 1983-85.
- O.23 Similar 1987-90.
- O.24 Similar 1991-93.
- O.25 AFRC appointments 1990.

Medical Research Council (MRC)

- O.26 Correspondence and papers 1986-90 on the proposed National Centre for Clinical Research, combining on a single site the work and resources of the Royal Postgraduate Medical School (RPMS) at Hammersmith Hospital and the MRC Clinical Research Centre (CRC) at Northwick Park. The Hammersmith site was the unanimous choice of the consultative committee (Chairman: Sir Robin Nicholson) in April 1988.
- O.27 Correspondence and papers 1985-87 on proposed MRC National Epidemiological Surveillance Centre for AIDS research, and proposed setting-up of two 'task forces' on vaccines (chaired by J.L. Gowans) and chemotherapy (chaired by Phillips).
- O.28 General correspondence and papers on MRC affairs, meetings, research projects, funding and budgeting, a little social and personal 1983-87.
- O.29 Similar 1988-90.
- O.30 Similar 1991-93.

Advisory Board for the Research Councils (ABRC)

Natural Environment Research Council (NERC)

- O.31 Papers for NERC Forward Look 1983, and presentation of reports to ABRC, including move from London and development of site at Keyworth, Nottinghamshire.
- O.32 Correspondence and papers 1984-87 on plans for British Geological Survey, and for Earth Sciences.
- O.33 Correspondence and papers 1984-85 on Ocean Drilling Programme.
- O.34 General correspondence and papers on NERC affairs, meetings, research projects, funding, a little social and personal 1983-87.
- O.35 Papers for NERC Seminar 'Considering the Future' 5 November 1987, including briefing for Phillips's introductory talk.
- O.36 General correspondence and papers on NERC affairs 1988-90.
- O.37 Similar material 1991-93.

Science and Engineering Research Council (SERC)

- O.38 Correspondence and papers 1982-83 on the Nuclear Structure Review Committee, set up by SERC in October 1982 'to review the state of nuclear structure physics in the UK and ... to consider the future of the Nuclear Structure Facility' [at Daresbury]. The chairman was E.W.J. Mitchell.
- Includes correspondence, copy of draft report, submissions from university physics departments.

Advisory Board for the Research Councils (ABRC)

- O.39 Correspondence and papers February-September 1983 on the International Subscriptions Working Group, set up by H.M. Treasury 'to consider the contribution of international scientific collaboration as a cost-effective way of doing research in the science and engineering field, and the implications of cash planning for participation ... '.
- The working group was initiated mainly to discuss and/or provide for difficulties experienced by SERC in funding international subscriptions (especially to CERN) which were vulnerable to exchange rate fluctuations.
- Phillips was a member. The chairman was J. Kelley (Treasury).
- Includes preliminary exchanges of correspondence and memos, meetings on 24 February, 14 June, 4, 25 July, 15 August, draft report, comments, final version.
- O.40 Correspondence and papers 1983-87, mainly on membership and cost of CERN.
- Includes official documents, minutes of meetings and discussions, ABRC advice, visits to CERN, report of Kendrew Committee, and also representations from concerned physicists and departments, requests for meetings etc.
- O.41 General correspondence and papers 1983-84 on SERC affairs, meetings, projects, funding. The material is more extensive than that for other Research Councils, partly because of the larger sums involved and the higher profile of the projects in question such as CERN and the Daresbury Laboratory. The correspondents include Council and committee officials and also an appreciable number of colleagues and academics writing on funding cuts, rejected grant applications and the implications of government policy for various branches of scientific activity.
- O.42 Similar material 1985-86.
- O.43 Similar material 1987-89.
- O.44 Similar material 1990-91.
- O.45 Similar material 1992.

Advisory Board for the Research Councils (ABRC)

Social Science Research Council/Economic and Social Research Council (SSRC/ESRC)

- O.46 General correspondence and papers on SSRC/ESRC affairs, meetings, research projects, appointments, change of name, a little social and personal 1983-84.
- O.47 Papers for Council meeting, Sunningdale, July 1984.
- O.48 General correspondence and papers 1985-87.
- O.49 Similar material 1990-92.

UK SCIENTIFIC AND ACADEMIC INSTITUTIONS

British Academy

- O.50 Brief correspondence and papers 1986, 1987 on channels of funding for research in the humanities.

British Museum (Natural History)

- O.51 Correspondence and papers 1983-90 on links with ABRC, funding, appointments of Trustees, corporate plan etc.

Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom (CVCP)

- O.52 Correspondence and papers on aspects of funding and research in higher education 1983-91.

Advisory Board for the Research Councils (ABRC)

Fellowship of Engineering

- O.53 Correspondence and papers 1983-91 on funding and grants-in-aid, lectures and social occasions.

National Advisory Board for Local Authority (later Public Sector) Higher Education (NAB)

- O.54 Correspondence, reports and papers 1983, 1987, mainly on funding and nature of research in public sector higher education.

Royal Society

- O.55 Correspondence, reports, memoranda on meetings and discussions on science policy and funding, including Royal Society 'Forward Look', relations with other organisations etc. 1983-88.

- O.56 Similar material 1989-93.

Universities Funding Council

- O.57 Correspondence and papers 1990-91.

University Grants Committee

- O.58 Correspondence, reports and papers on UGC matters, higher education structure and funding, review of UGC, ABRC strategy document, Biological Sciences Review, Research Selectivity Exercise etc. 1974, 1983-88.

Advisory Board for the Research Councils (ABRC)

UK SCIENCE POLICY INSTITUTIONS AND PRESSURE GROUPS

Centre for Exploitation of Science and Technology (CEST)

- O.59 Correspondence and papers, minutes, meetings etc. 1990-92 relating to CEST, a private group with limited membership, established in 1988 to encourage links between science, technology and engineering, and with industry. It also prepared research reports. Phillips was a member of Council, of the CEST informal dining and discussion club, and of an advisory sub-committee.

Civil Service College, Sunningdale

- O.60 Correspondence and papers, mainly on annual meeting of Permanent Secretaries, Home Civil Service, October 1986 to discuss Government policy for science and technology, opened by G. Porter. Phillips attended. Also a little later material 1991.

Council for Industry and Higher Education (CIHE)

This was an independent body with membership drawn from major industrial companies, vice-chancellors, directors of polytechnics and heads of colleges. It was set up in 1986 under the chairmanship of James (later Lord) Prior 'to encourage industry and higher education to work together and to represent their joint thinking to government'. The Director was Patrick Coldstream.

Several of the papers develop the idea of 'Roundtable' meetings of industrial, academic and Whitehall policy-makers, on the model of those organised by the US National Academy of Sciences.

Material includes correspondence and papers, arrangements and official briefings for meetings.

- O.61 March 1987. 'Strategy Document' entitled 'Towards a Partnership. Higher Education - Government - Industry.'
- O.62 Discussion meeting with company heads of research October 1987. Papers, official briefing.

Advisory Board for the Research Councils (ABRC)

- O.63 Council meeting May 1989. Plans for 'Roundtable'.
- O.64 Mainly on 'Consultation' at Templeton College Oxford, June 1989, to discuss proposal to 'set up a high-level group to meet two or three times a year to take an overview of the real issues implied in making a reality of an industry/academia/government "partnership" in science and technology'. Correspondence, Phillips's notes, summaries of the discussions prepared by CIHE and by DES.
- O.65 Correspondence and papers 1989-91 on formation of 'Roundtable' (Phillips was a member), first and second meetings, proposed meeting with Secretary of State.

Parliamentary and Scientific Committee

This is 'an unofficial group of members of both Houses of Parliament and British members of the European Parliament, representatives of certain scientific and technical institutions, some science-based companies and universities and polytechnics'.

The ABRC was elected a member of the committee in November 1983, Phillips being its representative. He addressed the Committee on several occasions, became a Vice-President and Vice-Chairman, and also served on its Science and Technology Group and on the Editorial Advisory Board of *Science in Parliament*.

- O.66 General correspondence and papers on meetings, functions, addresses etc. 1983-91.
- O.67 Correspondence and papers 1985-91 relating to the Committee's Science and Technology Group, set up in June 1985, on which Phillips served, also proposed 'Office of Technology Assessment', fund-raising for 'Science and Technology Information Service for Parliament' (STISP), seminars etc.

Science Policy Support Group (SPSG)

SPSG was established in September 1986 on the initiative of the ESRC, with Research Councils and other funding. It aims to promote research, analysis and information on the economic and social aspects of scientific and technical change, with a programme of seminars, study groups and publications. The founder chairman was J. Ziman.

Advisory Board for the Research Councils (ABRC)

- O.68 Correspondence and papers 1987-92 on workshops, discussions, publications, appointments.

PARLIAMENTARY SELECT COMMITTEES

House of Lords

Correspondence, memoranda and papers relating to House of Lords Select Committee on Science and Technology and Phillips's evidence to its sub-committees. Includes some annotated and amended transcripts, briefings and notes.

- O.69 1985-86 'The public support of civil science and technology in the UK'.
- O.70 1988 Agriculture and food research.
- O.71 1989 Science budget.
- O.72 1990 International scientific programmes.
- O.73 1992 Faraday programme.
- O.74 1993 Priorities for the science base.
- O.75 1993 Regulation of the UK biotechnology industry and global competitiveness.

House of Commons

- O.76 1984 Education, Science and Arts Committee. Science budget.

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- O.77 1988 Education, Science and Arts Committee. DES and Office of Arts and Libraries (OAL) expenditure: science funding.
- O.78 1990 Education, Science and Arts Committee. Science policy and the European dimension.
- O.79 1992 Science and Technology Committee. Inquiry into the policy and organisation of the Office of Science and Technology.

GOVERNMENT DEPARTMENTS

Cabinet Office

- O.80 Advisory Council on Applied Research and Development (ACARD).
- The Council was set up in 1976 to advise and publish reports on applied research and technology, its secretariat and costs being met by the Cabinet Office. Phillips was appointed in April 1983 *ex officio* as ABRC Chairman. In 1987 ACARD was re-structured as the Advisory Council on Science and Technology (ACOST), see O.81-O.83, with the same chairman Sir Francis Tombs (later Sir Robin Nicholson).
- Correspondence and papers 1983-87, meetings, appointments.
- O.81 Advisory Council on Science and Technology (ACOST)
- This was the successor to ACARD, from 1987 to 1993 when it was replaced (see O.82).
- General correspondence and papers 1988-90, including material on ACOST Study Group on the Science Base, Phillips's notes for ACOST discussion with Prime Minister, meetings with ministers, comments on reports.
- O.82 Similar material 1991-93 including letter May 1993 on replacement of ACOST by new Council for Science and Technology to be chaired by Chancellor of the Duchy of Lancaster.

Advisory Board for the Research Councils (ABRC)

- O.83 Correspondence and papers 1988-89 on ACOST study of Global Environment Research (GER), chaired by G. Porter. Phillips served. Material includes arrangements for meetings, background papers and submissions, minutes, draft report and comments.

Department of Trade and Industry

- O.84 Technology Requirements Board, set up in November 1985 to identify the R & D requirements of industry and technology, and to advise the Department on strategy and the allocation of funds. The Chairman was Sir John Collyear. Phillips was appointed, initially for two years, on the inception of the Board. The Board's report, 'Focus on Innovation' was produced in July 1987. It was dissolved in June 1988 by Lord Young.

Correspondence and papers, minutes, conferences and meetings. Includes a little material on the LINK scheme (formerly 'pull-through').

- O.85 LINK Steering Group (LSG).

This was set up in 1986 as a cross-government initiative to co-ordinate and promote collaborative LINK projects intended to bridge the gap between the science and engineering base and industry. Government was to contribute up to 50% of eligible costs. Phillips served on the Steering Group; Robert Malpas was Chairman.

The LINK secretariat was provided by the Department of Trade and Industry; several government departments, research councils and higher education institutions were involved as funding or evaluating agencies.

In the 1993 White Paper *Realising our potential*, responsibility for the LINK scheme, and hence for the LINK Steering Group and its secretariat, were transferred to the Office of Science and Technology. The Group was to report jointly to the Chancellor of the Duchy of Lancaster and the President of the Board of Trade to reflect the Department of Trade and Industry's considerable sponsorship of the scheme.

Correspondence and papers March-April 1986 on the setting-up and financing of LINK programme (earlier referred to as 'Pull-through', see correspondence and papers June and November 1986 in O.84).

- O.86 First LSG meeting 8 May 1987.

- O.87 Meeting 27 July 1987.

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| O.88 | Meeting 17 November 1987. |
| O.89 | Meeting 12 January 1988. |
| O.90 | Meeting 15 March 1988. |
| O.91 | Correspondence April 1988, Minutes of meetings 9 May, 6 July, 21 September 1988. |
| O.92 | Miscellaneous papers October-November 1988. Meeting 24 January 1989. |
| O.93 | Meeting 6 April 1989. |
| O.94 | Meeting 13 June 1989. |
| O.95 | Meeting 1 August 1989. |
| O.96 | Meeting 26 September 1989. |
| O.97 | Correspondence and papers 1990-92, including publication of first LSG report February 1992. |

SCIENCE POLICY STUDIES

After preliminary discussions, ABRC announced in July 1983 its intention to commission exploratory studies in various fields of science policy. The studies were commissioned by SSRC on behalf of the Council. Organisations in France and America were involved, but most of the studies were produced by the Science Policy Research Unit (SPRU) at the University of Sussex.

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- O.98 Preliminary papers and negotiations October 1982 - May 1983, meetings and proposals, comments on proposals (not all favourable).
- O.99 Launch of proposal, meetings of Science Policy Studies Steering Group 1983, a little later material 1986-89.
- O.100 Brief correspondence 1984 on SPRU publication *Foresight in Science: Picking the Winners* (written for ACARD).
- O.101 Brief correspondence 1984 and draft of *Trends in British Scientific Performance: Some Myths Exploded* (supported by ABRC and Leverhulme Trust).
- O.102 Correspondence 1985 and draft of *Bibliometric Analysis for Science Policy: Evaluation of United Kingdom. Research Performance on Ocean Currents and Protein Crystallography* (for ABRC and others).
- O.103 Correspondence 1985 and draft of *The Limitations of Co-citation Analysis* (funded by ABRC via Royal Society).
- Brief correspondence 1986 on SPRU study for ABRC on Government funding of research (no other documentation).
- O.104 Correspondence 1987 on various SPRU projects and reports, and on publication of ABRC report on bibliometric profiles.
- O.105 Brief later correspondence with SPRU 1990-91.

REPORTS AND WORKING PARTIES

- O.106-O.108 Correspondence and papers 1983-86, 1989-90, on a proposed National Research Centre for nuclear magnetic resonance (NMR) imaging. At a meeting on 14 June 1983, in response to concern voiced by interested parties on the future of MRI in Britain, ABRC commissioned a study from

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R.E. Richards, completed in December 1983. Lengthy negotiations followed on the feasibility and location of such a centre, the claims of Oxford University being canvassed and pressed; eventually, the work continued at Nottingham University under the direction of P. Mansfield.

The discussions involved individuals, university authorities, hospital and medical centres, research councils (MRC, SERC), government departments and instrument makers. The material includes research proposals, location costings and budgeting, notes of meetings, discussions, conversations etc.

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| O.106 | 1983 |
| O.107 | 1984 |
| O.108 | 1985-86, 1989-90. |
| O.109 | <p>ABRC study of commissioned research, undertaken on Phillips's initiative by Sir Ronald Mason July 1983, completed October 1983.</p> <p>Correspondence and papers including setting-up, draft and comments.</p> |
| O.110 | <p>ABRC Working Party on Private Sector Funding (Chairman: P. Mathias), report submitted March 1986.</p> <p>Correspondence and papers 1985-86.</p> |
| O.111-O.114 | <p>ABRC enquiry on 'Brain Drain', conducted by questionnaire and correspondence June-August 1985, the findings being reported by Phillips to Secretary of State in September 1985.</p> |
| O.111 | <p>Questionnaire, summary of replies, Phillips's letter and report, press release.</p> |
| O.112 | <p>Correspondence from colleagues and recipients of questionnaire (similar to material in O.111 but may include replies and follow-up letters).</p> |

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- O.113 Correspondence, memoranda and papers October-November 1985 relating to the enquiry and to meetings of Cabinet Committee Misc. 119 at which it was discussed (includes analysis of ABRC enquiry).
- O.114 Papers for Royal Society Science Policy Forum on Brain Drain, July 1986.
- O.115 ABRC commissioned study on 'The capacity for change in a Research Council: a study of the A.F.R.C.', conducted by R. Riley, begun December 1985, completed May 1986.

Correspondence and papers, copy of report as submitted.
- O.116-O.119 ABRC Review of Research Councils' responsibilities for biological sciences.

The review group was set up in May 1988 (chairman J.R.S. Morris) and presented its report (the 'Morris Report') in April 1989. Its recommendations on the restructuring of responsibilities within the Research Councils, and a proposed single National Research Council with executive powers, aroused wide comment in the scientific community. A 'follow-up' meeting was held 13-15 October 1989 which led to the restructuring of the ABRC, but not to the adoption of a single national Council (see also O.8-O.11).
- O.116 Setting-up of review group, membership and terms of reference, meeting arrangements, papers and submissions for meeting 27 October 1988, correspondence April-November 1988.
- O.117 Draft report with Phillips's comments, April 1989.
- O.118 Comments and reactions to report, May-June 1989.
- O.119 Correspondence and papers for 'follow-up' meeting July-October 1989 (see also B.46).
- O.120 Review Committee on 'The Future of University Biology', appointed by UGC in consultation with ABRC (Chairman T.R.E. Southwood) (see also O.58).

Draft report and comments 1989.

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SEMINARS AND CONFERENCES

Material may include correspondence, lists of participants, agenda/programme, introductory, background or follow-up papers.

O.121

1983-84.

25 April 1983. Secretary of State (K. Joseph) seminar on UK research.

12 September 1983. Prime Minister's seminar on science, technology and industry.

July 1984. Prime Minister's science briefing.

2 November 1984. Seminar on the Research Councils, All Souls Oxford (organised by R. Jackson).

O.122

1985-86.

10 January 1985. Seminar on research policy, Imperial College London (organised by B.H. Flowers).

1985. Ministerial meeting on 'Authority in science'.

28 November 1986. Seminar on 'Science and wealth creation', All Souls College Oxford (organised by R. Jackson).

O.123

1986-92.

16 February 1986. ABRC Seminar on 'Barriers to Growth'.

June 1992. Science seminar (organised by R. Jackson).

MISCELLANEOUS COMMITTEES AND SUB-COMMITTEES

O.124

Inter-agency committee on Global Environmental Change (IACGEC). Phillips was chairman.

Setting-up papers, meetings and minutes, relations with other bodies, correspondence 1989-92.

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- O.125 Inter-agency committee on Marine Science and Technology (IACMST).
Setting-up papers, a little correspondence 1991-92.
- O.126 Interdepartmental committee on Large Experimental Facilities (ICLEF).
Phillips was chairman.
Papers for meeting 21 September 1987.

INTERNATIONAL RELATIONS AND COLLABORATION

- O.127 Miscellaneous correspondence and papers March-November 1983 on international (mainly European) scientific collaboration, proposed visits, committee etc.
- O.128 Correspondence, memoranda, meeting notes and papers 1983-87 on UK participation in European projects and facilities, mainly high energy and particle physics, CERN, ESRF, but also EMBL.
- O.129 Tripartite talks on science (UK/France/Germany).
Arrangements for, and notes on, meetings 1983, 1984.

France

- O.130 Correspondence, memoranda and papers, ministerial meetings 1982-83 on possible Anglo-French research association.
- O.131 Delegation of French scientists from CNRS 1984.
- O.132 Anglo-French seminar on the management of science, Windsor, 6-7 November 1985.
Arrangements, participants, programme, information on UK and French organisation of science, Phillips's notes of meeting, UK note of 'Summary Proceedings', French 'Synthèse des Entretiens'.

Advisory Board for the Research Councils (ABRC)

- O.133 Note of informal meeting with CNRS representatives 28 November 1988.
- Brief correspondence on Anglo-French collaboration on AIDS November 1988.

- O.133A Correspondence and arrangements, participants, programme, 'agreed conclusions' of UK-France roundtable, London 29 May 1991.

German Federal Republic

The UK organisation of these meetings and seminars was undertaken by SERC.

- O.134 Reports of visits to Germany by DES and SERC representatives to discuss Anglo-German scientific collaboration 1983.
- O.135 Correspondence and papers 1986-87 on proposed Anglo-German seminar programme (organised by DES and SERC), discussion meeting October 1986, possible topics, participants, location.
- O.136 First Anglo-German seminar, on national laboratory management, held at Cosenor's House Abingdon, 3-4 March 1987.
- Correspondence, programme, participants, discussion papers, note of meeting. Phillips gave the concluding remarks.
- O.137 Seminar on molecular electronics, neural networks and biosensors, Braunschweig 3-5 December 1987.
- Correspondence, preliminary meeting and discussions, programme, participants.
- O.138 Second Seminar on management of national research centres, Bonn, 28-29 January 1988. Phillips chaired a session and contributed to the concluding remarks.
- Correspondence, arrangements, programme, participants, discussion papers.
- O.139 Brief correspondence (only) on Anglo-German 'Round Table', Bonn, 1990.

Advisory Board for the Research Councils (ABRC)

Israel

- O.140 Correspondence and papers 1986-87 on various proposals for collaboration and scientific exchanges with Weizmann Institute via Weizmann Institute Foundation. Includes draft proposal for Exchange Fellowship Agreement between Oxford University and Weizmann Institute. See also O.165.

Japan

- O.141 Papers on 'Japan 2000 Group' and Anglo-Japanese science and technology co-operation. 1986-87.

VISITS AND ENGAGEMENTS

The material is very varied in nature and extent. It ranges from official visits to institutions, laboratories, industrial companies or university departments, fully-prepared, briefed and documented, to relatively straightforward social events commemorating anniversaries, new foundations, opening ceremonies and the like. Many of the overseas visits were official, and are documented accordingly with current information on political or diplomatic factors.

The papers are arranged chronologically as far as ascertainable. They provide a full, but not exhaustive picture of this aspect of Phillips's responsibilities at ABRC, much of it at a period of officially 'part-time' service. Some of the Research Council files include similar events, and many visits to universities are subsumed in Section G or referred to more briefly in the general correspondence.

UK visits

1983

- O.142 10 January NERC Swindon.

 22 April British Museum (Natural History).

 12 May Rutherford Appleton Laboratory (SERC).

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23 May Cranfield Institute of Technology.

25 May British Museum (Natural History); opening of permanent exhibition by Phillips.

November Technical Change Centre.

16 November Shell UK Research and Development Seminar.

12 December Investors in Industry.

1984

O.143

2 February Institute of Petroleum (dinner).

8 February Hirst Research Centre (GEC).

7-8 March UKAEA Culham and Harwell and Rutherford Appleton Laboratory (SERC). ABRC visit deferred from September 1983. Full programme and documentation.

O.144

23 March UEI (Micro Consultants Group).

30 March Marine Biological Association (dinner).

12 April Unilever Research Colworth Laboratory. ABRC visit deferred from 28 February.

May ARC Thames Valley Institutes (dinner).

24 July British Geological Survey Keyworth. ABRC visit.

3 October Upjohn Company (dinner).

1985

O.145

24 April BP Research Centre, new laboratory inauguration.

11 October British Museum (Natural History) ABRC visit.

17 October ESRC 20th Anniversary Conference.

10 December IBM (UK) Laboratories.

Advisory Board for the Research Councils (ABRC)

1986

O.146 25 June Royal Postgraduate Medical School London.

1987

O.147 28 January AFRC Institute of Agricultural Engineering (Silsoe, Bedford) and
Silsoe College Cranfield Institute of Technology. ABRC visit. Full
documentation.

O.148 24 February London (dinner).
20 March University College London.
22-23 June Northern Ireland.
14 July Polytechnic of Central London.

1988

O.149 8 February Central Office of Information/Foreign and Commonwealth
Office.
14 April UKAEA Board (lunch).
4 October Central Electricity Generating Board (dinner).
28 November Royal Postgraduate Medical School London. ABRC visit.

Note No documentation for UK visits in 1989.

Advisory Board for the Research Councils (ABRC)

1990

O.150

1 May University of Leeds.

8 October British Aerospace Advanced Computing (dinner).

November Institute of Oceanographic Sciences (NERC).

11 December Institute of Terrestrial Ecology Monks Wood Station (NERC).

1991

O.151

12 February Sheffield.

19 April Oxford GlycoSystems.

29 May UK-France Round Table, Royal Society (see also O.133A).

28 June Hewlett-Packard Laboratories, Bristol.

11 July John Innes Institute, Norwich.

10 October Daresbury Laboratory (SERC).

30 October Warwick University.

12 November ESRC facilities, Essex University. ABRC visit deferred from June.

26 November Aston University.

2 December NRSC.

1992

O.152

11 January Smith System Engineering, Guildford.

4 February Institute of Terrestrial Ecology, Furzebrook Dorset (NERC).

20 February Institute of Freshwater Ecology, Windermere (NERC).

28 February Leicester Polytechnic.

17 March MRC Environmental Epidemiology Unit, Southampton.

8 May Institute of Food Research, Reading (AFRC).

Advisory Board for the Research Councils (ABRC)

1993

- O.153 22 February Rutherford Appleton Laboratory CRAY Supercomputing Facility Inauguration (SERC).
22 March Leeds University.
7 May British Aerospace Sowerby Research Centre.
18 May Foundation for Science and Technology, Royal Society.
4 June Crystallography Group, Department of Chemistry, York University.
15 June Southampton Oceanography Centre, (NERC) time capsule laying ceremony.

Overseas visits

Washington D.C. 15-23 September 1983

Phillips combined this visit with attendance at a conference in Bethesda, see G.271.

- O.154 Arrangements, itinerary, schedule of meetings and engagements, letters of thanks.
- O.155 Phillips's notes, report on visit.
- O.156 Briefings and information assembled from UK Research Councils, government departments etc. on topics for discussion, and some sent from USA.
- O.157 Official folder of Research Council briefing.

Advisory Board for the Research Councils (ABRC)

France 11-15 March 1984

O.158 Arrangements, itinerary, schedule of meetings, correspondence preceding and following visit, Phillips's notes.

O.159 Official folder of briefing and information.

Sweden 6-12 October 1984

O.160 Itinerary and schedule of meetings, report on visit, letters of thanks, Phillips's notes.

Netherlands 18-21 March 1985

O.161 Itinerary and schedule of meetings, information.

Portugal 27 March 1985

O.162 Material for 'Seaday' seminar on board Royal Yacht 'Britannia': programme, participants, information.

Tokyo/Tsukuba Japan 3-6 June 1985

O.163 Material for Council of Europe 6th Parliamentary and Scientific Conference: programme, participants, schedule, correspondence, Phillips's notes for speech.

Advisory Board for the Research Councils (ABRC)

Paris 22-24 September 1985

- O.164 Material for Symposium 'Rise and fall of a priority field' organised by European Science Research Councils (ESRC) and Swedish Natural Science Research Foundation (NFR), held at Centre National de la Recherche Scientifique (CNRS): programme, participants, summary of discussions, papers submitted.

Israel 19 December 1985 - 2 January 1986

- O.165 Material related to visit by Phillips as guest of Israeli Minister for Science and Development, with visits to universities and research institutes and discussions of UK-Israel collaboration and possible science foundation: arrangements, itinerary and schedule of meetings, Phillips's report on visit, correspondence. See also O.140.

Paris 13 March 1986

- O.166 Opening of new Science Museum, La Villette (brief correspondence only).

Washington D.C. 27 April - 13 May 1986

- O.167 Programme, schedule, correspondence. Mainly on collaboration and the US Government-Industry-Research Roundtable.

Washington D.C. 8-9 October 1987

- O.168 Government/Industry/Research Roundtable, attended by Phillips, J. Fairclough and P. Coldstream. A session was given to 'New directions and current initiatives in British science and technology and higher education', at which they spoke. Main topics of the meeting were multidisciplinary research and university-industry research collaboration.

Correspondence, programme, participants, information, Phillips's notes, follow-up correspondence.

Advisory Board for the Research Councils (ABRC)

Soviet Union 2-9 October 1988

- O.169 Correspondence, programme, report for visit with Secretary of State (K. Baker) to Moscow, Novosibirsk, Akademgorok, Leningrad.

Boston and Washington D.C. 14-19 May 1989

- O.170 Programme, itinerary, schedule of meetings, information.

Washington D.C. 26-27 February 1991

- O.171 Government/Industry/Research Roundtable on 'The Future of the Research Enterprise within the Industrialized Nations', attended by Phillips and W.D.P. Stewart as UK invited speakers.

Correspondence, programme, participants, schedule, text of Phillips's remarks.

Washington D.C. and California 2-7 June 1991

- O.172 Programme, schedule of meetings, briefing, report on California visit.

Berlin and Bonn 10-12 November 1991

- O.173 Correspondence, arrangements, programme, report for visit with Secretary of State (K. Clarke).

Brussels 12-13 February 1992

- O.174 Participants, Phillips's report.

Advisory Board for the Research Councils (ABRC)

Germany 15-17 June 1992

- O.175 Brief correspondence only on visit to Germany to discuss and inspect Fraunhofer Institutes.

ABRC SUBMISSIONS AND ADVICE

These folders comprise material relating to ABRC's official advice to successive Secretaries of State for Education and Science. This includes reports on 'Science and Public Expenditure' offered annually at the outset of each Public Expenditure Survey (PES), 'Forward Looks' and advance budgeting, and detailed allocation advice on the distribution of the science budget once the PES outcome was known at the end of the calendar year. This timetable could fluctuate under special political or economic events but was broadly adhered to.

The material is primarily official correspondence, memoranda, meetings and discussions, drafts and comments on the reports; it may, however, include representations, correspondence etc. from individuals and colleagues in addition to those from established scientific bodies.

The extent and proportion of the documentation varies. In years when ABRC recommendations appeared controversial and aroused sometimes intense public interest, the degree of 'outside' or private correspondence could be considerable. In such cases it has been retained along with the official material, and attention is drawn in the appropriate entries (see especially material for 1987 and 1990).

The papers are presented chronologically. Many or most of the topics referred to under Research Council or Government Department headings elsewhere are here brought together for decision.

1983

- O.176 January-May. Includes draft PES submission.
- O.177 June-September. Includes meeting notes, Phillips's memorandum to Secretary of State (K. Joseph) on his appraisal of British science after first six months at ABRC, draft Forward Look.

Advisory Board for the Research Councils (ABRC)

- O.178 September-October. Material and briefing for meeting with Prime Minister 19 October on 'maintaining the strength of the science base'.
- O.179 October-December. Further bids, discussions. Includes letter from Secretary of State 8 December accepting ABRC's recommendations.
- 1984**
- O.180 Correspondence, papers, memoranda.
- 1985**
- O.181 Correspondence and papers, PES advice April, distribution advice November.
- 1986**
- O.182 January-April. Meetings and memoranda in preparation for PES advice, correspondence and meetings on biotechnology and 'pull-through'.
- O.183 March-June. PES 'strategy', draft advice April, comments and discussions, 'brainstorming' session to discuss strategy document on 10 June.
- O.184 June 1986 - April 1987. Includes correspondence on allocations. The science budget had not met the increased allocations which ABRC had considered necessary for UK research and for international subscriptions (e.g. CERN). Phillips made private representations voicing the Board's concern. Secretary of State's (K. Baker) letter of April 1987 thanks Phillips for his work in achieving a fair distribution of the additional allocation.
- O.185 Material prepared for meetings with Secretary of State (K. Baker) 3, 24, 27 June, 21 July.

Advisory Board for the Research Councils (ABRC)

1987

The material for this year is extensive. Phillips submitted his discussion document 'A strategy for the Science Base' to the Secretary of State (K. Baker) on 6 May. Consideration of the document was held up by the general election, and it was not published until 20 July.

The document proved controversial. Among its recommendations were:

the differentiation of higher education institutions into Type R (full range of research activity), Type T (teaching) and Type X (teaching and research in a limited range of fields);

the development of inter-disciplinary research centres;

responsibility for research support costs to be transferred from universities to the Research Councils thus ending the 'dual-support' funding system.

These were the principal areas of comment and debate among the scientific and higher education communities. Many representations and comments, some very hostile, were received both at the time and in subsequent years.

Because the ripples cast by the report continued for so long, the material in O.189-O.193 extends beyond the strict limit of the calendar year.

- O.186 February-April. Correspondence, memoranda, meetings, draft for strategy document.
- O.187 April-August. Continuing comments, drafts, memoranda.
- O.188 Material for meetings with Secretary of State (K. Baker), 26 March, 5 August, 28 October.
- O.189 Comments on the 'Strategy Document'. Some are addressed directly to Phillips, some to officials or ministers and passed on to him. Some are brief notes, others are substantial documents. They are sent by individuals and colleagues, members of the Research Councils, academics and industrialists, some writing on their own behalf, some as representatives of learned societies, firms or public bodies. Some have carbon copies of Phillips's replies (often detailed). In addition, there are collections of comments assembled by DES Secretariat and passed on at intervals to Phillips.

March-April 1987.

Advisory Board for the Research Councils (ABRC)

O.190 Similar material October 1987.

O.191 Similar material November-December 1987.

O.192 Similar material January-July 1988.

O.193 Correspondence and papers June 1987 - March 1989 on Interdisciplinary Research Centres, some commenting on the general principle, some suggesting projects for collaborative research, a few with specific submissions for IRC status.

1988

O.194 Correspondence, papers, drafts, meetings February-November, press conference February 1989 at which a higher level of funding and the establishment of nine IRCs were announced.

1989

O.195 Correspondence and papers February-November, including Forward Look meeting (March), briefings for meetings (July, November), correspondence with Secretary of State (J. MacGregor) on MRC Clinical Research Initiative.

1990

The ABRC advice for this year aroused controversy and hostile reaction. As the Government's science budget remained substantially the same in real terms as in 1990-91, reductions in some programmes had to be recommended. One of these was the termination of some projects at the Nuclear Structure Facility at Daresbury. This attracted much unfavourable comment both in the press and from scientific colleagues. Phillips wrote an article explaining the roles of ABRC and the Research Councils published in *New Scientist* (see O.198).

Advisory Board for the Research Councils (ABRC)

O.196 Correspondence and papers July-December. The material is less extensive than in other years, but includes letter from Secretary of State (J. MacGregor) on flexibility margin (July), drafts of ABRC allocation letter (December), reply from Secretary of State (K. Clarke) (January 1991). The ABRC allocation advice was not published in this year, which exacerbated public agitation.

O.197 Correspondence, comment, representations etc. arising from PES advice, almost all relating to the Daresbury decision and its effect on physics research and education in UK. February-August 1991.

O.198 Correspondence, papers, press comment August-December 1991 mainly related to Phillips's letter published as 'Talking Point' in *New Scientist* 12 October under the title 'A balancing act for research priorities'.

1991

O.199 January-July. Minutes, meetings, briefings, PES advice, resource management.

O.200 September-October. Minutes, meetings, briefings, dual support transfer, Phillips's notes, supercomputing, bids.

O.201 November. Meetings, minutes, papers, comments on allocations advice, Phillips's notes.

O.202 December. Drafts, comments, final version of allocation advice, Secretary of State's acceptance and agreement to publish.

1992

O.203 Correspondence and papers on advice (May), flexibility margin (August), allocation (December).

Advisory Board for the Research Councils (ABRC)

1993 WHITE PAPER AND BOUNDARY STUDY

The General Election of May 1992 was followed by the announcement of previously unheralded changes in government organisation of education and science. The Department of Education and Science (DES), to whose Secretaries of State Phillips had hitherto addressed the ABRC's advice, became the Department for Education (DFE), and responsibility for science and technology was transferred to the newly-created Office of Science and Technology (OST) under the Chancellor of the Duchy of Lancaster and Minister of Public Service and Science (W. Waldegrave) with a seat in the cabinet.

The Chancellor put in train a major review of the structure and funding of British science and its relationships with government, including the roles of its advisory bodies and the Research Councils. Submissions were widely invited (reputedly about 800 were received) from the whole range of institutions and individuals, and a White Paper *Realising our potential. A Strategy for Science, Engineering and Technology* was published on 26 May 1993 as Command 2250. The White Paper, the first major policy review of the field for over 20 years, met with general approval in the scientific community. Among its many recommendations were the re-organisation of the existing advisory bodies: ACOST was to be developed into the new Council for Science and Technology, and ABRC was to be subsumed into the OST with a new post of Director-General of Research Councils. The dual-funding system was to be maintained for the support of university research. The number of Research Councils was to be increased from five to six with a re-drawing of the boundaries between them and their detailed allocation of responsibilities.

The task of chairing the study of Research Council reconstruction and the determination of the areas of responsibility between the new Councils before they came into being in April 1994 was entrusted to Phillips by the Chancellor of the Duchy of Lancaster shortly after the publication of the White Paper, and was completed by mid-July.

The material below provides a detailed record of these events in British science policy. It is somewhat less full for the preparation of the White Paper (O.204-O.211) since this was compiled by OST and the ABRC input was only one, albeit crucial, source. For the Boundary Study, however, which was produced by ABRC itself, the information is much more diverse. The folders at O.212-O.219 include institutional and individual correspondence and submissions as well as official material and drafts.

White Paper Realising our potential

O.204

ABRC Advice October, Executive Summary November 1992.

Attached here is a manuscript note by Phillips 19 October headed 'Draft for ABRC advice - not accepted in full' in which he puts forward the proposal for a single Research Council which was resisted as 'too centralist'.

Advisory Board for the Research Councils (ABRC)

- O.205 DTI Input to White Paper December 1992.
Drafts and papers 10, 16, 18, 19, 22 February 1993.
- O.206 Discussions and drafts 23, 24 February, 3, 10 March.
- O.207 Drafts and comments 2, 6, 13 April.

At this time the working title was 'A new partnership: science and technology in the service of the nation'. The eventual title emerged in draft of 12 May.
- O.208 Drafts, Phillips's notes, 22 April, 28 April.
- O.209 Phillips's letter to Chancellor of the Duchy of Lancaster with comments on draft 11 May (includes copies of HORCs comments), meeting with Chancellor 12 May and subsequent draft and comments by Phillips and ABRC staff.
- O.210 Draft 18 May (including list of comments incorporated), page proof 20 May (minor corrections), 21 May (with attached note of last-minute addition requested by Phillips but not made).
- O.211 Copy of final revise as published.

Boundary Study

The entries here conform to the disposition of material as received in tagged bundles from Phillips. His descriptive titles, for some of the items, have been retained and are quoted as appropriate.

Preliminary arrangements for the Boundary Study had been under way before the White Paper was published on 26 May; Phillips had been approached to chair the study and had agreed to do so, his appointment being announced to the House of Commons by the Chancellor of the Duchy of Lancaster on 16 June. He was asked to undertake the task 'as if fulfilling the role of the new Director General of the Research Councils' and not as Chairman of the ABRC, and was supported by the resources of the ABRC Secretariat and of the Science Base Group of the Office of Science and Technology (OST).

Advisory Board for the Research Councils (ABRC)

The timescale was a tight one. Letters were sent to HORCs on 4 June requesting an analysis of their respective Council's interpretation of the White Paper in respect of the mission and areas of responsibility of the restructured Councils (replies to be forwarded by 11 June). On 7 June a similar letter was sent to Departmental Chief Scientific Advisers. On the basis of their replies, and of material already assembled for the White Paper, an early draft was prepared (23 June), which formed the basis of meetings with HORCs 25-29 June and was also circulated on 4 July to a considerable number of individuals and key organisations, members of research councils, advisory boards etc. requesting comments by 12 July.

The replies (including some sent in unsolicited before the circulation of the draft report) were analysed by OST, and on the basis of these and all other material the final report was drafted and sent to the Chancellor on 16 July.

- O.212 May-June. Preliminary discussions, drafts of remit, timetable and methods of work, membership of proposed group, letters sent out to HORCs and Chief Scientists. (A committee study had been envisaged with a report date of 1 October, but Phillips's letter of 4 June to W.D.P. Stewart sets out his own intended timetable and consultative method of work with the support of ABRC and OST officials, and a report date of 16 July, and these were followed).
- O.213 'Evolution of draft boundary report and covering letter, sent to Councils on 23 June.'
- O.214 'Documents used in discussions with RCs: 25/28/29-6-93. Includes bidding letters of 4 June (to HORCs) and 7 June.'
- Includes Phillips's notes on draft report discussed at meetings.
- O.215 'Letters received in advance of circulation of the draft report.' From organisations, university departments, scientific, industrial and official representatives, June-July.
- O.216 'Development of list of people to be consulted. We compromised on a rather long short list.' 29 June - 5 July.
- O.217 'Draft report of 5 July circulated to HORCs, OGDs and numbers of concerned scientists, for comments by 12 July.' Includes revisions, discussions etc.

Advisory Board for the Research Councils (ABRC)

- O.218 'Responses to 5 July consultation.' Also includes analysis of responses compiled by OST officials under Phillips's guidance, indicating affiliation, and areas of agreement or disagreement for each correspondent.

Most of the replies were received as requested, shortly after the 5 July letter. A few are in response to the final report and date from late July or August.

- O.219 Final revisions, report as sent to Chancellor 16 July. In his Parliamentary Answer on the study, the Chancellor said 'I have accepted all of Sir David's recommendations and I have invited him to continue to oversee the further work of the Office of Science and Technology designed to effect a smooth transition to the new Research Council system by 1 April 1994.'

MEMORANDA AND MEETINGS 1982-93

This material was received piecemeal from Phillips and is complementary to that included elsewhere under ABRC business and meetings. It comprises exchanges, whether in the form of letters or memoranda, with staff, officials and ministers, principally at ABRC and the Department of Education and Science, the Office of Science and Technology, and the Cabinet Office. Other ministries are occasionally also involved.

The 1982 material was sent to Phillips as background information before he took up his appointment in January 1983.

All topics are discussed: the membership, structure and function of the Research Councils and of ABRC, funding bids and PES advice, general science policy and specific matters under consideration such as Council collaboration, supercomputing, research centres and the university dual-support system.

Preparatory material and notes of meetings with senior civil servants, and advisers, Secretaries of State and the Prime Minister, as well as the regular meetings of ABRC, are also included.

- O.220 1982.

- O.221 1983.

- O.222 1984.

Advisory Board for the Research Councils (ABRC)

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|-------|--|
| O.223 | Meetings and correspondence 1983-85 with Secretaries of State and Prime Minister. |
| O.224 | 1986. |
| O.225 | 1987-88. |
| O.226 | November-December 1989, possible merger of AFRC and NERC. |
| O.227 | Miscellaneous memoranda April 1989 - April 1991 exchanged with J.M.M. Vereker (DES). |
| O.228 | Miscellaneous memoranda July 1990 - September 1991 sent by Phillips to P.J. Thorpe (Secretary ABRC). |
| O.229 | 1990. |
| O.230 | 1991. |
| O.231 | Submissions and correspondence exchanged with Secretary of State (K. Clarke). November 1990 - December 1991. |
| O.232 | 1992. |
| O.233 | Submissions, meetings and correspondence exchanged with Chancellor of the Duchy of Lancaster (W. Waldegrave) April 1992 - November 1993. |
| O.234 | 1993. |

Advisory Board for the Research Councils (ABRC)

GENERAL CORRESPONDENCE 1983-93

This is a chronological sequence of letters and information sent to Phillips as Chairman of ABRC. They do not emanate from government sources, though some might be termed 'semi-official' such as requests to receive science representatives or distinguished visitors from abroad, or to attend gatherings or discussions on matters of general interest in the field of science policy.

The content of the material is very miscellaneous. It ranges from relatively minor exchanges about reports, information, publicity, conferences, personal and social contacts to more substantial correspondence with colleagues in academia and industry, mainly in UK but also in USA, on research funding, PES decisions and the like.

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|-------|--|
| O.235 | Miscellaneous shorter correspondence 1983-86 on meetings and discussions with reporters and editors on Press relations. |
| O.236 | 1983. |
| O.237 | 1984. Includes copy of Phillips's letter 13 January inviting colleagues to join 'an informal preparatory group to help [him] to plan the work of the Board'. |
| O.238 | 1985. |
| O.239 | 1986. |
| O.240 | 1987. |
| O.241 | 1988. |
| O.242 | 1989. |

Advisory Board for the Research Councils (ABRC)

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|-------|-----------------------|
| O.243 | 1990. |
| O.244 | 1991 January-April. |
| O.245 | 1991 May-July. |
| O.246 | 1991 August-December. |
| O.247 | 1992-93. |

ADDENDUM

This contains material received too late for inclusion in the main sequence. It is presented in the same subject-order as shown in the list of contents and cross-references are provided where appropriate.

APPOINTMENTS AND PERSONAL

- | | |
|-------|---|
| O.248 | Correspondence 1990-92 on the restructuring of the Research Council system and of ABRC, Phillips's appointment as full-time Chairman, salary and conditions. (See O.1, O.9-O.12.) |
| O.249 | Correspondence 1992 on appointment to HEFC(E), 1993 on extension of appointment as chairman of ABRC to September 1993 and later to December 1993. |
| O.250 | Shorter personal correspondence, 1993. |

Advisory Board for the Research Councils (ABRC)

AGRICULTURAL AND FOOD RESEARCH COUNCIL (AFRC)

- O.251 Notes and draft for talk on 'The next ten years: a personal view' given at 'AFRC Directors' Conference', no date or place given but c.1984.

SEMINARS AND CONFERENCES

- O.252 Information, correspondence, briefing, advice, points for discussion at meeting with Prime Minister 3 May 1984. Includes note of meeting. (See O.121.)

- O.253 Similar material for meeting with Prime Minister at Chequers 8 July 1984, with list of participants and topics, timetable.

VISITS

(to follow O.175)

Washington 18-22 October 1993

- O.254 Programme, extensive report by Phillips on visit.

ABRC SUBMISSIONS AND ADVICE

(to follow O.203)

1993

- O.255 May. Agenda, Chairman's briefing, action notes, Phillips's notes for meeting 26 May.

Advisory Board for the Research Councils (ABRC)

- O.256 July. Agenda, Chairman's briefing, Phillips's notes on Board's future work programme for meeting 14 July. Includes briefing for Chancellor of the Duchy of Lancaster who attended the meeting.
- O.257 November. Briefing on Science Budget.
- O.258 December. Drafts, correspondence for Science Budget Allocations 1994-97, 23 December. This is the final allocations advice from ABRC.

Boundary Study

(to follow O.219)

Papers, correspondence, memoranda 1993 arising from the recommendation in the Boundary Study that the Rutherford Appleton Laboratory and the Daresbury Laboratory should be combined in a single organisation within the Engineering and Physical Sciences Research Council and serve all the Research Councils instead of being owned by any one of them.

- O.259 July-October.
- O.260 October-December.

MEMORANDA

(to follow O.234)

- O.261 November 1993 (future organisation of OST).

SECTION P

CORRESPONDENCE

P.1-P.304

P.1-P.292 SCIENTIFIC AND GENERAL CORRESPONDENCE

Correspondence with individuals and organisations, in alphabetical order, dated and indexed, with an indication of any information of particular biographical, scientific or historical interest.

P.293-P.296 SHORTER SCIENTIFIC CORRESPONDENCE

Indexed, in alphabetical order.

P.297-P.304 UNINDEXED CORRESPONDENCE

In chronological order.

INTRODUCTION

The folders in the main sequence at P.1-P.292 are essentially concerned with aspects of protein research in hand or projected, in UK or abroad. They may include ideas, drafts or data for research and publications, some in collaboration; arrangements for short or long term visits to Phillips's laboratory, or to conferences and meetings; career and appointments; some personal news may also be included.

The progress of Phillips's research interests can be seen in exchanges with colleagues at different periods; in this way the correspondence provides a useful complement to material elsewhere in the collection. Examples would be work on diffractometers (correspondence with U.W. Arndt), myoglobin (C.L. Coulter, J.C. Kendrew, M.G. Rossmann, B.E. Strandberg, H.C. Watson), lysozyme (R.E. Canfield, R.B. Corey, R. Diamond, R.E. Dickerson, P. Jollès, C. Tanford) and, latterly, science policy. On a personal level, the correspondence with long-term friends such as J.D. Dunitz and F.M. Richards is

Correspondence

of interest, and the extensive material relating to W.L. Bragg further testifies to the close contact made in the decade 1956-66 when Phillips worked at the Royal Institution while Bragg was Director.

Like other documents in the collection, many of the letters were circulated to leading colleagues in the laboratory for their advice and comment, and may bear notes from, in particular, C.C.F. Blake, L.N. Johnson and R.E. Offer.

The 'Shorter Scientific Correspondence' at P.293-P.296 is similar in content to that of the main sequence but less developed and more specifically concerned with research in hand. Brief exchanges such as requests for reprints or information, permission to borrow or quote from published materials, models and the like appear as unindexed correspondence at P.297-P.304.

It should be noted that while some of the folders may include references to science policy and funding, the main bulk of Phillips's correspondence on these matters is in Section O.

Correspondence

SCIENTIFIC AND GENERAL CORRESPONDENCE

- | | | |
|-----|--|-----------------------|
| P.1 | Abraham, E.P. | various dates 1969-88 |
| | Correspondence 1969 is on the proposal for a protein preparation laboratory in Oxford; correspondence 1983 is on Abraham's Memoir of E.B. Chain for the Royal Society. | |
| P.2 | Acharya, K.R. and others | 1990-91 |
| | Acharya was a member of the Oxford Laboratory before taking up an appointment at Bath University. | |
| | Correspondence on research and publications. | |
| P.3 | Aldridge, W.N. | 1969-76 |
| | Research on rat and cat haemoglobin. | |
| P.4 | Allen, K.W. | 1984 |
| | Scanning Proton Microprobe Project in Oxford. | |
| P.5 | Ambler, R. | 1983-84 |
| | Sequence data on β -lactamase. | |
| P.6 | Andreeva, Natalia S. | 1963-67 |
| | Andreeva was a Russian crystallographer working on pepsin. Correspondence on research, visits, translation into Russian of Phillips's lysozyme papers. | |
| P.7 | Anfinsen, C.B. | 1965-72 |
| | Correspondence 1965 refers to the American Chemical Society meeting in Atlantic City, September 1965, at which Phillips spoke on lysozyme. Continuing general correspondence on research, publications, lectures and visits; Anfinsen spoke at the first 'Harden' conference of the Biochemical Society, organised by Phillips (G.63), and visited the Laboratory several times. | |

Correspondence

P.8, P.9	Arndt, U.W.	1957, various dates 1965-90
P.8	1957. Manuscript letters from Arndt sent from University of Wisconsin Madison where Arndt was spending a year in the Department of Physics. Mainly on the design and publication of collaborative papers on diffractometers, with some general research and personal news.	
P.9	1965-90. General correspondence on research, apparatus design, recollections of W.L. Bragg at Royal Institution.	
P.10	Arnon, R.	1968-80
P.11	Arnott, S. and others	1968, 1974-89
	Research, visits and appointments, references and career.	
P.12	Artymiuk, P.J.	1990-91
	Work, data and publications on TIM, lysozyme and tri-N-acetylchitotriose.	
P.13	Ashworth, J.M.	1969, 1978
P.14	Baker, B.R. and others	1970
	Dimercurial compounds in enzyme structure research.	
P.15	Barnes, W.H.	1957, 1965
	Barnes was the head of the x-ray laboratory in the National Research Council, Ottawa where Phillips worked 1951-55.	
P.16	Bateson, P.P.G.	1991

Correspondence

P.17	Bhargava, P.M. Visits, invitations, lectures.	1983-86
P.18	Blakemore, C.B. Research Centre for neurosciences in Oxford.	1988, 1990
P.19	Blow, D.M. General correspondence on research, lectures and publications, visits, recommendations, W.L. Bragg's original lysozyme sketch (September 1972), appointments.	1964-87
P.20	Bodmer, W.F. Science and medical research funding. Includes memorandum by Bodmer on 'Scientific value and the level of grant support' and his submission to House of Lords Select Committee on 'Priorities in medical research'.	1985-86
P.21	Boycott, B.B. Research funding, especially MRC.	1978, 1981
P.22	Bradbury, E.M. α -lactalbumin.	1970
P.23	Bradbury, J.H. Research and publications on lysozyme and α -lactalbumin, visits, publications, recommendations and appointments.	1970-84
P.24-P.29	Bragg, W.L. and others	1960-93

Correspondence

- P.24 Correspondence with, and related to, Bragg 1960, 1963, 1965-71, 1991
- Letter of 1960 is from New Zealand during a lecture tour by Bragg; letters of 1963 are from Bragg and Lady Bragg on the death of Phillips's father; letter of 1965 is on lysozyme structure.
- The bulk of the correspondence relates to 1967-71 when Bragg had retired from the Royal Institution and Phillips and his team had moved to Oxford. It deals mainly with arrangements for visits, lectures and meetings, filming, publications, comments on research in progress and the like. Reference is also made to the Hemming-Lee benefaction arranged personally by Bragg to make up the salary deficit at Oxford of former MRC-funded Royal Institution workers (see E.2) and to Bragg's obituary of Lee. Correspondence 1969-71 refers to Bragg's plans for his book on the development of x-ray analysis left unfinished on his death in 1971 and completed for publication by Phillips and H. Lipson (P.26, P.27).
- Despite their long and close association, Bragg continued to use the formal mode of address by surname until 21 March 1967 when he first ventured on to the more familiar 'David' (with a relapse to 'Phillips' in October 1970).
- Correspondence 1991 is a request for a Bragg autograph.
- P.25 Autobiographical writings by Bragg. Photocopies or carbon copies of unpublished material.
- Includes photocopy of Bragg's Royal Society Personal Record ('Green Book') to c.1970, photocopy of his autobiography to 1951, brief 9pp. personal account, manuscript notes, calendar of events and outline for autobiography.
- P.26, P.27 *The Development of x-ray analysis*
- This book was in an advanced state, but not completed, when Bragg died. One of his last acts before entering hospital in June 1971 was to send Phillips the manuscript for comment. After Bragg's death on 1 July Phillips undertook to see the book through the press, assisted (from October 1971) by H. Lipson. The manuscript proved to need a degree of editing and revision and, after various publication delays, was published by G. Bell in October 1975.
- P.26 Correspondence 1971-76, 1992 with members of the Bragg family, co-editor and publisher. Includes Bragg's last letters April-June 1971 about the book and his wish for Phillips to oversee the final publication. Correspondence 1991-93 is about corrections and arrangements for reprint published by Dover Publications 1992 and includes some corrections sent by colleagues after original publication in 1975.

Correspondence

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|------------|---|---------------------|
| P.27 | Miscellaneous redraftings of chapters, drafts for figures and legends. | |
| P.28, P.29 | <i>Selections and reflections: the legacy of Sir Lawrence Bragg.</i> Edited by Phillips and J.M. Thomas.

This was a volume published by Science Reviews Ltd. in 1990 to mark the centenary of Bragg's birth, and included some of Bragg's articles, reminiscences and assessments by colleagues and collaborators, and a reprint of Phillips's Royal Society Memoir. | |
| P.28 | Correspondence with colleagues, contributors and co-editor, some reviews of published book 1990-91. | |
| P.29 | Manuscript or typescript copies of contributions from U.W. Arndt, S.L. Bragg, S. Chandrasekhar, J.D. Dunitz, D.C. Hodgkin (with covering note), J.C. Kendrew, R. King, A. Klug, N.F. Mott, L. Pauling, G. Porter, P. Thomson (née Bragg), A. Todd. | |
| P.30 | Brändén, C-I.

Research, science funding. | 1973, 1980-83, 1989 |
| P.31 | Brenner, S.

Correspondence 1982 includes report on biotechnology in Japan. | 1982, 1986 |
| P.32 | Brew, K.

Research on α -lactalbumin. | 1977-78, 1986 |
| P.33 | British Council | 1986 |
| P.34 | Broadbent, D.E. | 1977, 1983, 1986 |
| P.35 | Brown, F.

Work on Foot-and-Mouth Disease Virus. | 1984-88 |

Correspondence

P.36	Bunn, C.W.	1971-73
	Research on rennin at the Royal Institution.	
P.37	Burgen, A.S.V.	1976-77
	Ultrastructural research at National Institute for Medical Research.	
P.38	Campbell, P.N.	1976-89
	Research on α -lactalbumin, biochemistry in China.	
P.39	Canfield, R.E.	1963-68
	Canfield worked on the amino-acid sequence of hen egg white lysozyme, in competition with P. Jollès.	
	Research and publications on lysozyme.	
P.40	Capital Plant International Ltd.	1985-86
P.41	Capon, B.	1972-74
P.42	Carlisle, C.H.	1960-69
	Research, grant applications.	
P.43	Caroe, G.M. and others	1973-79
	Gwendolen Caroe was W.H. Bragg's daughter and W.L. (Sir Lawrence) Bragg's sister. The correspondence relates to the biography of their father which she and Bragg planned together and which she completed and published as <i>William Henry Bragg, 1862-1942. Man and Scientist</i> (CUP New York 1978).	
P.44	Chance, B.	1967-69, 1983-86
	Research, visits, conferences, Chance's 70th birthday celebrations (1983).	

Correspondence

P.45	Chandrasekhar, S. and others Research on liquid crystals, visits etc.	1962-69, 1976-87
P.46	Chapman, D. Research, publications, visits, career and appointments.	1966-82, 1990
P.47	Cochran, W. Correspondence 1965 is on biomolecular research in various UK centres.	1962, 1965
P.48	Cohen, C.	1968, 1970, 1991
P.49	Cohen, P.	1978-79, 1984
P.50	Coppola, J.C.	1964-66, 1978
P.51	Corey, R.B. Lysozyme.	1962, 1965
P.52	Cotton, R.G.H. Research on pterin antibodies.	1988
P.53	Coulson, A.F.W. β -lactamase	1984, 1988
P.54	Coulter, C.L. Early correspondence is on myoglobin (Coulter had worked on the project at Cambridge before returning to USA) and lysozyme.	1962-68, 1985, 1987

Correspondence

P.55	Cray Research (UK) Ltd. Supercomputing.	1984, 1988
P.56	Crick, F.H.C. Appointments.	1976, 1978
P.57	Cruickshank, D.W.J. Early correspondence is on research on anthracene and myoglobin.	1957-67
P.58	Crumpton, M.J. Antibodies of lysozyme, myoglobin.	1964-70, 1983
P.59	Dainton, F.C. Research funding etc.	1991
P.60	Dannenbergs, A.M. and others Lysozyme substrates.	1972-73
P.61	Davies, D.R.	1960-67, 1975, 1987
P.62	Deranleau, D.A. and others Collaborative research on intramolecular charge-transfer compounds.	1969-71
P.63	Diamond, R. Model-building and listing programs for lysozyme, and other research projects.	1964-74

Correspondence

P.64, P.65	Dickerson, R.E. and others	1961-79, 1989
P.64	2 October 1961 - 6 December 1962. This period covers the research on lysozyme leading up to the first paper by Phillips's team at 6Å resolution (<i>Nature</i> 196, 1173-1178, 1962). As well as the research at the Royal Institution, similar work was proceeding under the direction of Dickerson (Urbana, Illinois), R.B. Corey (California Institute of Technology) and P. Jollès (Paris). The correspondence discusses the progress of research, exchanges of data, possible simultaneous publication, draft of the <i>Nature</i> paper and comments on it (includes comment from M.F. Perutz that it 'has already reached a state of perfection on which I find myself unable to improve, and it only remains for me to congratulate you on this beautiful piece of work.'). draft of short note on triclinic lysozyme by Dickerson <i>et al</i> intended for simultaneous publication in <i>Nature</i> .	
P.65	1963-79, 1989 Continuing correspondence on research (including 2Å resolution of lysozyme), lectures, publications, visits, appointments.	
P.66	Dobson, C.M. Research, career and appointments.	1973-93
P.67	Douzou, P. and others Lysozyme research projects, publications.	1970-87
P.68	Drenth, J.D. and others Research on papain, affairs of EMBL.	1961-88
P.69	Dunitz, J.D. Dunitz worked at the Royal Institution 1955-57, when he took up a post at the ETH Zurich. He became and remained a close friend of Phillips. Scientific, personal and career correspondence.	1957-89

Correspondence

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|------|---|-----------------------|
| P.70 | Dunnill, P. | 1966-89 |
| | Dunnill worked at the Royal Institution 1961-64, when he took up a post at University College, London. | |
| | Research, career, science policy, Biotechnology Joint Advisory Board. | |
| P.71 | Dwek, R.A. and others | 1973-82 |
| | Research funding and projects. | |
| P.72 | Edmundson, A.B. | 1972-75 |
| P.73 | Edsall, J.T. | various dates 1963-90 |
| | Lysozyme, Protein Atlas project, visits. | |
| P.74 | Edwards, J.H. | 1980-81 |
| P.75 | Engel, P.C. | 1987-88 |
| | Funding for research projects on protein engineering. | |
| P.76 | Fasman, G.D. | 1967-87 |
| P.77 | Feldmann, R.J. and others | 1974-88 |
| | Molecular graphics. | |
| P.78 | Fenn, R.H. | 1964-79 |
| | Ruth Fenn was a research student of Phillips at the Royal Institution 1959-64 before taking up a post at Portsmouth College of Technology (status subsequently changed to Portsmouth Polytechnic and then in 1992 Portsmouth University). | |

Correspondence

P.79	Finney, J.L. Polarisability.	1981
P.80	Fischer, E.H. Work on phosphorylase	1967-72
P.81	Fothergill-Gilmore, L. Research, career and appointments.	1982-88
P.82	Frauenfelder, H.	1979
P.83	Freeman, H.C. Research, appointments, visits.	1971-74, 1981-82
P.84	Frohlich, H. and others Collaborative research on low frequency vibrations of proteins.	1973-74
P.85	Geis, I. Geis was the artist specialising in scientific subjects who produced the illustrations for Phillips's <i>Scientific American</i> article on lysozyme (F.11). The correspondence is mainly on Geis's publication projects. See also P.86 below.	various dates 1966-91
P.86	Glusker, J. Includes correspondence 1979 on Glusker's difficulties in obtaining permission to reproduce the <i>Scientific American</i> article for a volume of 'Benchmark Papers in Crystallography'. Permission was eventually given after Phillips's intervention.	1976-89

Correspondence

P.87	Grahame-Smith, D.G.	1987
	Plans for a Centre for Applied Neuropsychobiology at Oxford.	
P.88	Green, D.W.	1971-72, 1976
	Includes letter from W. Cochran on Green's death, 1976.	
P.89	Gupta, M.P.	various dates 1962-90
P.90	Gurd, F.R.N.	1966-84
	Collaborative research on myoglobin, lysozyme, TIM etc.	
P.91	Gurdon, J.B.	1970, 1976, 1985
P.92	Gutfreund, H.	1967-78
	Research, publications, visits.	
P.93	Haas, D.J. and others	1966-69
	Haas worked in Phillips's group at the Royal Institution 1965-66 before taking up posts at the Weizmann Institute and elsewhere.	
	Correspondence on research and career.	
P.94	Haddow, A.	1961-64
	Myoglobin model etc.	
P.95	Hall, L.D.	1983, 1987
	Appointment.	

Correspondence

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|-------|---|-----------------------|
| P.96 | Hamaguchi, K. | 1972-88 |
| | <p>Kozo Hamaguchi, a physical biochemist, was an early worker on lysozyme. He was Phillips's host at the International Union of Biochemistry Congress in Tokyo (1967) and became and remained a close friend. Hamaguchi worked at Phillips's laboratory July-September 1973 as a Royal Society exchange professor, working on aspects of lysozyme, and again May-June 1980. He attended the Oxford meeting to mark Phillips's retirement (July 1991) and spoke at the dinner.</p> | |
| P.97 | Hanson, E.J. | 1967, 1970, 1972 |
| | <p>Teaching of molecular biology, career, publication.</p> | |
| P.98 | Harding, N.G.L. | 1987 |
| | <p>Organisation of health care in UK and Europe.</p> | |
| P.99 | Harris, H. and others | various dates 1971-90 |
| | <p>Scientific and personal correspondence. Includes drafts of two papers by Harris ('Rationality in Science' and 'The City of Berlin and some modern approaches to the cancer problem').</p> | |
| P.100 | Harris, J.I. and others | 1973-78 |
| | <p>Harris had been a fellow-student of physics with Phillips at Cardiff in 1942; they later collaborated in enzyme research as well as sharing an interest in Welsh rugby. Includes Phillips's address at the Memorial Meeting for Harris, June 1978.</p> | |
| P.101 | Harrison, P.M. | 1962-88 |
| | <p>Research on ferritin, career and appointments, grant and travel applications etc.</p> | |
| P.102 | Harte, R.A. | 1967-68 |
| P.103 | Hazen, E.E. | 1974-77 |

Correspondence

P.104	Hendrickson, W.A.	1980
P.105	Higgins, C.F. Manpower crisis in biology.	1989
P.106	Hill, R.L. α -lactalbumin.	1967-74, 1986
P.107	Hill, R.W. and others	1986
P.108	Hirsch, P.B. and others Electron microscopy in Oxford (1970); proposed lectureship in Theory of Electron Microscopy (1972-73, with comments by colleagues); funding for research on high performance materials (1989).	1970, 1972-73, 1985, 1989
P.109	Hodgkin, A.L. Includes notes on the 'single file effect' taken from Hodgkin's 1952-53 notebook.	1977
P.110	Hodgkin, D.M.C. Mainly brief correspondence about crystallographic research and equipment. Postcard of 1965 reads 'We have got a tentative, v. plausible-looking interpretation of Guy, Margaret and Eleanor's insulin map.'	1960-61, 1965
P.111	Hol, W.G.J.	1978-79, 1985
P.112	Holmes, K.C. Correspondence 1966 includes material relating to the move to Oxford of Phillips and his team, of which it had been intended that Holmes should be a member, and his withdrawal at a late stage from the move and the proposed fellowship at St. Peter's College (May 1966).	1966, 1970-74, 1986

Correspondence

P.113	Hoppe, W. and others	1970-76, 1982-83
	Visits, research. Includes correspondence and material on early history of non-conventional electron microscopy and scientific priority.	
P.114	Horecker, B.L.	1969, 1972
	Work on aldolase.	
P.115	Howlett, J.	various dates 1968-86
P.116	Huber, R.	various dates 1967-89
	Research, equipment, career and appointments.	
P.117	Ibbeken, H.	1982-83
	Case of scientific fraud at Free University of Berlin.	
P.118	IBM	1979-90
	Work on computer graphics and other projects; conferences and meetings sponsored by IBM.	
P.119	ICI	1979, 1984, 1987
	Various collaborative projects.	
P.120	Institute of Biology	1973
	Working party on the mathematical needs of biology students. Phillips was asked to chair the working party but declined from pressure of work.	
P.121	Jack, J.J.B.	1987, 1989

Correspondence

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|-------|--|-----------------------|
| P.122 | James, M.N.G. | 1973-80, 1989-91 |
| | Lysozyme research and publications, a little personal correspondence and historical recollections. | |
| P.123 | Janssen Pharmaceutical Ltd. | 1984-85 |
| P.124 | Jaton, J-C. | 1975 |
| | Research on rabbit immunoglobulin. | |
| P.125 | Jeavons, A.P. | 1986 |
| | Funding for Jeavons's research on a wire chamber area detector for x-ray diffraction studies (in collaboration with Phillips and J. Mulvey). | |
| P.126 | Jeffery, J. d'A. and others | 1976-87 |
| | Research on dehydrogenase, career and appointments. | |
| P.127 | Jenkins, J.G. | 1982-86 |
| | On his book <i>The Bragg family in Adelaide: a pictorial celebration</i> (Univ. Adelaide Foundation 1986). | |
| | Correspondence, review of book. | |
| P.128 | Jenness, R. | 1972-73 |
| | Baboon α -lactalbumin. | |
| P.129 | Jensen, L.H. | various dates 1959-92 |
| | Research on triclinic lysozyme, visits etc. | |
| | Autobiographical recollections 1992. | |

Correspondence

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|--------------|---|-----------------------|
| P.130 | Johnson, L.N. | 1980, 1990-92 |
| | Louise Johnson was a research student of Phillips at the Royal Institution, moving to Oxford in 1966 and becoming his successor as the first David Phillips Professor of Molecular Biophysics in 1990. | |
| | Correspondence is mainly on matters arising from the change-over on his retirement. Many comments by Johnson on projects, research proposals, recommendations etc. are to be found in all sections of the collection. | |
| P.131 | Jollès, P. | 1965-90 |
| | Various lysozyme research projects by Phillips, Jollès, Canfield, especially on duck and goose egg-white lysozymes and on vertebrate lysozymes. | |
| P.132 | Jones, E.R.H. | various dates 1968-84 |
| P.133 | Kaiser, E.T. | 1978-79, 1983-86 |
| | Research, visits, appointment. | |
| P.134 | Karpas, A. | 1985-87 |
| P.135 | Karplus, M. | 1976, 1980-85 |
| | Collaborative research and publication on lysozyme dynamics. | |
| P.136 | Katchalski-Katzir, E. | 1983, 1985 |
| P.137, P.138 | Kendrew, J.C. | 1962-88, 1992 |
| P.137 | General correspondence on research, publications, EMBL etc. | 1962-88, 1992 |
| | Includes manuscript draft by Kendrew on myoglobin sequencing by x-ray diffraction and by chemical methods. | |

Correspondence

- P.138 Correspondence, drafts and papers 1967-69 relating to the joint IUPAC/IUB Commission on Biological Nomenclature for the description of polypeptide conformation, chaired by Kendrew, on which Phillips served.
- Further material relating to the Commission's work may be found in the manuscripts of J.C. Kendrew deposited in the Department of Western Manuscripts, Bodleian Library Oxford (NCUACS catalogue no. 11/4/89).
- P.139 Kennard, O. various dates 1962-87
- P.140 Kenner, G.W. 1969-79
- Collaborative research on 'Synthesis of artificial lysozymes': meetings, discussions, grant applications.
- P.141 Kent, P.W. various dates 1964-87
- P.142 Kim, S-H. 1973, 1976, 1977
- P.143 Klotz, I.M. 1969, 1974
- P.144 Klug, A. 1972-74
- Includes a little material relating to controversy with A. Rich.
- P.145 Knowles, J.R. 1969-89
- Enzyme research on TIM at Oxford and Harvard, career and appointments. Includes a little personal correspondence.
- P.146 Kornberg, H.L. 1969-89
- Personal and scientific correspondence. Includes Kornberg's comments (1970) on proposed EMBL, proposed research on pyruvate carboxylase and other research topics, publications, science funding.

Correspondence

P.147	Koshland, D.E. and others Research on tryptophan and lysozymes, appointments, lectures and visits.	1965-74, 1990
P.148	Kraut, J.	1964-72
P.149	Kretsinger, R.H.	1970-74, 1981
P.150	Kronman, M.J. Goat α -lactalbumin.	1968, 1971
P.151	Kuhn, N.J. Calcium binding in α -lactalbumin.	1986-87
P.152	Langridge, R. Work on computer graphics, visits, career and appointments.	1965-89
P.153	Latner, A.L. Possible x-ray analysis of human LDH-1.	1970
P.154	Layton, D.G. Possible Science Park at Oxford.	1984
P.155	Lazdunski, M. and others Proposed visit to UK laboratories as EMBO lecturer.	1976-77
P.156	Levine, M.	1970, 1981, 1984

Correspondence

P.157	Levitt, M. and others	1968-87
	Lysozyme refinement, protein folding, career and appointments.	
P.158	Lewy, G.A.	1971
	Aldonolactones as inhibitors.	
P.159	Liang, D-C.	1980, 1985
	Relations with Chinese scientists.	
P.160	Lienhard, G.E.	1971-75
	Research and publications on tetrasaccharide lactone, career.	
P.161	Lipscomb, W.N.	1963-71, 1985
	Carboxypeptidase structure, problems of collaboration, equipment.	
P.162	Liquori, A.M.	1967
	Lysozyme coordinates.	
P.163	Lyster, R.L.J.	1982-90
	α -lactalbumin from baboons and mares, appointments.	
P.164	MacFarlane, A.G.J.	1983-84
	'Strategic computing' and national computing centre.	
P.165	MacFarlane, G.	1977, 1981, 1982
	Letters (from MacFarlane only) mainly relating to his writings on H.W. Florey, Fleming and penicillin.	

Correspondence

P.166	McKenzie, H.A.	1972, 1986-90
	Research and publications on α -lactalbumin and lysozyme sequences.	
P.167	McMullen, A.I.	1967-72
P.168	Mandelstam, J.	1974, 1988
	RNA sequencing (1974), sequencing of genome of <i>Bacillus subtilis</i> (1988).	
P.169	Maslen, E.N.	1965-67
	Research, appointments.	
P.170	Mason, R.	1964-78
P.171	Mathieson, A.McL.	1958-75
	Design of apparatus (1958), single-crystal intensity measurement project (1963-69, see also K.24-K.27), research, visits.	
P.172	Matthews, B.W.	1967-88
	Lysozyme and other research projects, visits, appointments.	
P.173	May, R.M. (see also L.34)	1983
P.174	Michael, P.C. and others	1984-88
	Technical and personal correspondence.	
P.175	Mills, O.S.	1964-66, 1975, 1982

Correspondence

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|-------|--|------------------------|
| P.176 | Mitchell, P.D. | 1982, 1990 |
| P.177 | Monod, J. | 1967-69, 1972-73 |
| | Research ideas and papers (1967-69); Herbert Spencer Lectures at Oxford (1972-73). | |
| P.178 | Moser, C. | various dates 1976-89 |
| | Mainly on meetings and workshops associated with CECAM (Centre Européen de Calcul Atomique et Moléculaire). | |
| P.179 | Muirhead, H. | various dates 1968-86 |
| P.180 | Némethy, G. | 1965-67 |
| | Conventions for polypeptide conformation, research and collaborative paper on lysozyme (<i>Nature</i> , 214 , 363-365). | |
| P.181 | Neuberger, A. | 1965-76, 1981 |
| | Lysozyme, Phillips's application for equipment for Oxford laboratory (Neuberger was assessor), drafts for papers, invitation (18 October 1967) to Phillips to serve on Committee of Biochemical Society, invitation (declined, 25 November 1970) to Phillips to serve on Editorial Board of <i>Biochimica et Biophysica Acta</i> . | |
| P.182 | Neurath, H. | 1968-69, 1976, 1981-83 |
| P.183 | Nicholson, B.H. | 1970-75 |
| | Lactate dehydrogenase, RNA polymerase. | |

Correspondence

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|-------|---|-----------------------|
| P.184 | North, A.C.T. and others | 1961-91 |
| | <p>North, one of Phillips's long-term colleagues, began work at the Royal Institution in October 1955. He was a key member of the team who moved to Oxford in 1966 and was appointed Astbury Professor of Biophysics at Leeds in 1972.</p> <p>General correspondence on research, publications, career and appointments, equipment and grant applications, research funding and policy.</p> | |
| P.185 | O'Konski, C.T. | 1975-77, 1985 |
| P.186 | Owston, P.G. | 1970-73 |
| | <p>Mainly on apparatus.</p> | |
| P.187 | Pasternak, C.A. | 1975, 1986-91 |
| | <p>Mainly on proposed Biomedical Centre in London (later Oxford).</p> | |
| P.188 | Pauling, P.J. | various dates 1966-89 |
| P.189 | Peacocke, A.R. | 1965-69 |
| | <p>Research, lectures and meetings in Oxford.</p> | |
| P.190 | Perham, R.N. | 1969-76 |
| P.191 | Perkins, S.J. | 1974, 1991-92 |
| | <p>Later correspondence is on funding for neutron research.</p> | |
| P.192 | Perlmann, G.E. | 1968-72 |

Correspondence

P.193	Perry, S.V. Work on troponin C.	1973-74, 1988
P.194	Perutz, M.F. and others Includes letter June 1965 from W.L. Bragg on the 'landmarks' in molecular biology. General correspondence on research, visits, publications and, in later period, on organisation and funding of science.	1964-89
P.195	Peters, D.	1981-85
P.196	Pethig, R. Dielectric properties of proteins.	1980-82
P.197	Piez, K.A. Research on collagen structure.	1971-90
P.198	Pinkerton, J.M.H.	1969-70
P.199	Pogson, C.I. Research on TIM, career and appointments.	1969-73
P.200	Poljak, R.J. Poljak introduced the lysozyme problem to the Royal Institution (1960) but left after the initial work of 6Å resolution. Correspondence of 1965 includes material on the lysozyme structure and Phillips's announcement of it at Atlantic City in April of that year (G.11).	1963-75, 1980, 1985

Correspondence

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|-------|---|---------------|
| P.201 | Pollock, M.R. | 1966 |
| | Models of lysozyme. | |
| P.202 | Porter, R.R. | 1967 |
| | Collaborative teaching and research plans, departmental organisation at Oxford. | |
| P.203 | Post, C.B. | 1987 |
| | Distribution of lysozyme coordinates. | |
| P.204 | Prothero, J.C. | 1965-66 |
| | Helical segments in lysozyme. | |
| P.205 | Prout, C.K. | 1976, 1990 |
| | Correspondence 1976 is on purchase of x-ray diffractometer for Chemical Crystallography Department, Oxford. | |
| P.206 | Przybylska, M. | 1961-67 |
| | Maria Przybylska was a colleague of Phillips in Ottawa (1951-55) who subsequently worked on protein crystallography at the laboratories of the National Research Council, Ottawa. | |
| | Correspondence on diffractometer apparatus and various research projects. | |
| P.207 | Ptitsyn, O.B. | 1979, 1986-88 |
| | Visits, conferences. | |
| P.208 | Pullman, B. | 1983-84 |
| | Proposed election of Phillips to French Academy of Sciences. Includes his own summary evaluation of his scientific career to date. | |

Correspondence

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|-------|---|-----------------------|
| P.209 | Quiocho, F.A. | various dates 1968-91 |
| | Research, visits, career and appointments. | |
| P.210 | Qurashi, M.M. | 1962-68 |
| | Qurashi was a colleague of Phillips at the National Research Council, Ottawa (1951-53). | |
| | Correspondence relates to work 1966 on 'A quantitative analysis of the various aspects of exaggeration'. | |
| P.211 | Radda, G.K. | 1972, 1979 |
| | Correspondence 1972 is on space requirements, departmental organisation, relations between biochemistry and biophysics in Oxford. | |
| P.212 | Raftery, M.A. | 1968-72 |
| | Research and publications on lysozyme. | |
| P.213 | Ramachandran, G.N. and others | 1963-90 |
| | Includes news of, and congratulations on lysozyme structure (1965), various researches, publications, conferences, visits etc. | |
| P.214 | Ramanadham, M. | 1976-90 |
| | Work on triclinic lysozyme. | |
| P.215 | Ramaseshan, S. | 1963-89, 1992 |
| P.216 | Rasmussen, S.E. | 1970 |
| | Monochromator design. | |

Correspondence

- | | | |
|-------------|---|-----------------------|
| P.217 | Rees, D.A. | 1970, 1981-88 |
| | Later correspondence on Research Council matters, and discussion meeting on human genome studies. | |
| P.218 | Rérat, C. and others | 1962-73 |
| | Lysozyme and prealbumin research, visits etc. | |
| P.219 | Rich, A. | various dates 1963-86 |
| P.220-P.222 | Richards, F.M. and others | 1964-91 |
| | <p>Richards, based in the Department of Molecular Biology and Biophysics at Yale University from 1955 until his retirement in 1991, was one of Phillips's oldest friends and colleagues. They collaborated in various research programmes, and on the proposed Atlas of Molecular Biology for Oxford University Press (only partly achieved, see F.95, F.96).</p> <p>Richards spent a year in Phillips's Department 1967-68 as a Visiting Fellow at All Souls and was Hinshelwood Lecturer in 1985; Phillips was a frequent visitor to Yale when his travel schedule allowed. Richards and his wife Sally were enthusiastic sailors, and Phillips joined them for sailing holidays off the US Eastern seaboard (though not when they crossed the Atlantic in their yacht on their way to their sabbatical leave in Oxford). This episode, and other scientific and personal recollections of their long association, are recalled in Phillips's speech at Richards's Retirement Symposium in June 1991 (G.427). Richards attended, and gave the closing remarks at, the meeting on Protein Structure and Function in honour of Phillips at Oxford in July 1991 (A.52).</p> <p>Correspondence, mainly on scientific and publication topics but including a little personal material and some letters from Richards's wife.</p> | |
| P.220 | 1964-68 | |
| P.221 | 1969-73 | |
| P.222 | 1974-78, 1982-91 | |

Correspondence

- | | | |
|-------|---|---------------------|
| P.223 | Richards, R.E. | 1967-69, 1983, 1986 |
| | Correspondence 1967-69 on various science matters at Oxford; correspondence 1983 is on Richards's acceptance of invitation to Directorship of Leverhulme Trust; correspondence 1986 is on portraits of D.C. Hodgkin. | |
| P.224 | Rigler, R. | 1984-86 |
| P.225 | Rodríguez, R. | 1988 |
| | Pigeon lysozyme | |
| P.226 | Rose, I.A. | 1979-84 |
| P.227 | Rossmann, M.G. | 1964-85 |
| | Rossmann had contributed to the haemoglobin and myoglobin research programmes, working in the MRC laboratory Cambridge before taking up an appointment at Purdue University, Indiana where he continued work on structural studies of proteins and viruses. | |
| | Correspondence on research, career, I.U.Cr. etc. | |
| P.228 | Rowatt, M.E. | 1966, 1979-85 |
| | Lipopolysaccharide research. | |
| P.229 | Rupley, J.A. | 1964-74, 1980-84 |
| | Rupley, who was based at the University of Arizona, worked with Phillips at the Royal Institution in the summer of 1965 and spent sabbatical leave in the Oxford Laboratory in 1970. | |
| | Research on lysozyme, visits, publications. | |

Correspondence

- | | | |
|-------|---|---------------|
| P.230 | Sakabe, K. and Sakabe, N. | 1972, 1978-88 |
| | Visit to Oxford Laboratory to work on insulin with D.C. Hodgkin 1973-75, continuing scientific and a little personal correspondence mainly on insulin research in various institutes. | |
| | Photographs of Chinese colleagues in Peking and Shanghai taken on a visit in 1979 and a group photograph 1986, sent to Phillips, are at A.75. | |
| P.231 | Sarma, R.H. | 1981-84 |
| | Sarma was a member of the 1965 lysozyme team recruited by Phillips in Madras, 1963. | |
| | Mainly on publications. | |
| P.232 | Sasisekharan, V. | 1980-86 |
| P.233 | Sawyer, L. | 1978, 1983-88 |
| | Research and publications on β -lactamase, lactoglobulin. | |
| P.234 | Sayre, D. | 1984, 1987 |
| P.235 | Scheraga, H.A. | 1968-89 |
| | Lysozyme co-ordinates, visits, α -lactalbumin. | |
| P.236 | Scrutton, M. | 1970-74 |
| P.237 | Sharon, N. | 1964-87 |
| | Research, meetings, publications on lysozyme, Sharon's visit to Phillips's Laboratory 1968 and other visits. | |

Correspondence

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|-------|--|------------------------|
| P.238 | Shaw, W.V. | 1987-89 |
| | Proposed Institute for protein science and engineering at Leicester University. | |
| P.239 | Shotton, D.M. | 1971-84 |
| P.240 | Sigler, P.B. | various dates 1968-81 |
| | Research, mainly on t-RNA, career. | |
| P.241 | Skinner, H.C.W. | 1963-64, 1984 |
| P.242 | Smith, A.D. and others | 1965, 1982, 1986, 1989 |
| P.243 | Smith, D.S. | 1980-81 |
| | Smith was appointed Hope Professor of Entomology at Oxford in 1981. | |
| P.244 | Smith, I. | 1969-71 |
| | Model-building. | |
| P.245 | Southwood, T.R.E. and others | 1978-92 and n.d. |
| | Southwood was appointed to the Linacre Chair of Zoology at Oxford in succession to J.W.S. Pringle in 1979. He served as Vice-Chancellor of the University 1989-93. | |
| | The earlier material refers to Southwood's plans for the Zoology Department, research projects, grant applications and appointments, and later to more general matters of research support in the university and outside. | |
| | Many of the letters are manuscript and not all are dated. Those which can be assigned a date from their content have been left in their presumed place. A small group of undated letters has been placed at the end of the sequence. | |

Correspondence

P.246	Sowden, B.	1989-91
P.247	Squire, J.M.	1988
P.248	Stein, W.H. General scientific and personal correspondence.	1966-79, 1989
P.249	Steiner, L.	1965-67
P.250	Steinrauf, L.K. Diffraction research at Ottawa; lysozyme.	1960-65
P.251	Steitz, T.A. Research and career.	1970-90
P.252	Steward, E.G.	1968-77
P.253	Stewart, W.W. and others Correspondence and supporting material about 'scientific fraud' and a reported specific case of a published paper based on inaccurate experimental results, sent to Phillips, and including comments by colleagues to whom he referred the material.	1986-88
P.254	Strandberg, B.E. and others Strandberg had been a member of the myoglobin research team at Cambridge; he refers to his early collaboration with Phillips in his letter of 1 November 1978 and in the correspondence of 1992.	1963-67, 1978, 1992
P.255	Stryer, L.	1967, 1973-77, 1984

Correspondence

P.256	Sutton, L.E.	1973-75, 1980
P.257	Swinnerton-Dyer, H.P.F. Mainly on higher education and funding.	1978-79, 1983
P.258	Sykes, B.E.	1972-78
P.259	Tanford, C. Correspondence 1964-68 mainly on lysozyme research; correspondence 1977 on Tanford's sabbatical year in Oxford; correspondence 1986 on World Cultural Council.	1964-68, 1977, 1986
P.260	Taylor, C.A. Mainly on visits and contacts at University College Cardiff where Taylor was Professor of Physics.	various dates 1963-83
P.261	Thoma, J.A. Structure of lysozyme.	1972-73
P.262	Thomas, E. Lysozyme.	1967
P.263	Thomas, J. Thomas was a fellow student at Cardiff, 1942-44 who joined the Royal Navy on the same day as Phillips, and subsequently became Captain (RN). Sailing; scientific recruitment.	1978-86

Correspondence

P.264	Thomas, J.M.	1983, 1985-92
	General scientific and a little personal correspondence. Thomas was Director of the Royal Institution 1986-91 when he was appointed Deputy Pro-Chancellor of the University of Wales, and some of the material relates to the affairs and funding of the Institution, the Bragg Centenary Volume (P.28, P.29) etc.	
P.265	Thompson, M.P.	1982-88
	Work on α -lactalbumin.	
P.266	Thomson, A.R.	1981-82
	Biochemical technology at Harwell.	
P.267	Tigyi, J.	1978-80
	Proposed UK participation in UNESCO supported European group in biophysics.	
P.268	Tishler, M.	1970
P.269	Toyama, A.	1982
P.270	Tulinski, A.	1974-75, 1981
P.271	Upjohn Company	1986
	Support for research in Europe through 'European Discovery Capability' programme.	
P.272	Vainshtein, B.K.	1963-70, 1980-86

Correspondence

- | | | |
|-------|---|---------|
| P.273 | Vallee, B.L. | 1982-89 |
| | <p>Vallee, Director of the Center for Biochemical and Biophysical Sciences and Medicine at Harvard Medical School, was the scientific director of the Harvard-Monsanto Research Agreement (see K.14-K.21) specialising in metalloenzymes and bioinorganic chemistry. He had a long association with Phillips through their common interest in the development of protein structure analysis. Phillips and colleagues at Oxford collaborated with him in work on human tumor derived lysozyme, their contribution being published as an Appendix (<i>Crystallographic & NMR studies of human tumor derived lysozyme</i>) to the paper by Vallee and others, <i>Lysozyme: a major secretory product of a human colon carcinoma cell line</i>, in <i>Biochemistry</i>, 24, 1985.</p> <p>Correspondence includes arrangements for collaborative research, data, results, publication, the Harvard-Monsanto Agreement, Phillips's Dunham Lectures at Harvard 1989 (G.365-G.367), personal news.</p> | |
| P.274 | Vane, J.R. | 1985-89 |
| | <p>Founding and development of the William Harvey Research Institute at St. Bartholomew's Hospital Medical College.</p> | |
| P.275 | Vassileva-Popova, J.G. | 1975-90 |
| P.276 | Vernon, C.A. | 1967 |
| P.277 | Vijayan, M. | 1969-93 |
| | <p>Vijayan held an SRC Research Fellowship at Oxford in D.C. Hodgkin's group January 1968 - December 1970. The correspondence dates mainly from his return to the Indian Institute of Science Bangalore. It deals with research, conferences, visits (including further visits to Oxford 1976-77, and summer 1986) and publications.</p> | |
| P.278 | Vincentelli, J.B.I. | 1967-71 |
| | <p>Vincentelli paid two short visits to Phillips's Laboratory in 1968, working on lysozyme. Correspondence is on research plans, arrangements for visits, subsequent career.</p> | |

Correspondence

P.279	Watson, H.C. and others	1962-90
	<p>Watson held an MRC staff appointment at the Cambridge Laboratory of Molecular Biology December 1959 - June 1968. He was a member of J.C. Kendrew's team from 1960 and collaborated with Phillips and others at the Royal Institution on absorption corrections and other aspects of the refinement of the myoglobin structure project. He later worked with Kendrew on establishing atomic coordinates. On the termination of his MRC contract he was appointed to the Department of Biochemistry at Bristol.</p> <p>The correspondence ranges widely, including early myoglobin research and later projects, visits and conferences, appointments and career.</p>	
P.280	Watts, A.	1986
	Research, funding, science policy.	
P.281	Webster, C.	1984-85
	Archive preservation.	
P.282	Wetlaufer, D.B.	1972-82
P.283	Whelan, W.J.	1967, 1971
P.284	Wierenga, Rik K.	1984-85
	TIM coordinates.	
P.285	Wilkins, M.H.F.	1973, 1975
P.286	Williams, J.O.	1975
	Research on acridine.	

Correspondence

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|-------|--|-----------------------|
| P.287 | Williams, R.J.P. and others | 1966-89 and n.d. |
| | <p>Williams was a lecturer in Inorganic Chemistry, Oxford, and Fellow of Wadham College when Phillips moved to Oxford (1966). He subsequently held the Royal Society Napier Research Fellowship while still based at the Inorganic Chemistry Department at Oxford. He was active in establishing the Oxford Enzyme Group and was an enthusiastic participant in its, and other, collaborative research projects, while retaining an outspoken independence of mind towards the organisation and funding of research and of university education at Oxford and in general. His views and his expression of them often brought him into conflict with others, including Phillips, notably over the concept and creation of Interdisciplinary Research Centres.</p> <p>The material includes grant applications, research reports, drafts and ideas, and many manuscript letters or notes (sometimes more than one per day), not all dated.</p> | |
| P.288 | Willis, B.T.M. | various dates 1964-88 |
| P.289 | Wilson, A.J.C. | 1957-82 |
| | <p>Wilson was Phillips's Supervisor at Cardiff.</p> <p>Scientific and personal correspondence. Includes Wilson's support for Phillips's application for Fellowship of the Institute of Physics (1957), his report on a visit to India (1980), arrangements for a retirement supper for Wilson at the University of Birmingham November 1982 (see also G.263).</p> | |
| P.290 | Wolstenholme, G.E.W. | 1976, 1981 |
| P.291 | Wood, M.F. | 1983-89 |
| | <p>ABRC matters and meetings. Support for local research organisations by Oxford Instruments Group.</p> | |
| P.292 | Zeppezauer, E. | 1969-70 |
| | <p>Lysozyme crystallisation.</p> | |

Correspondence

SHORTER SCIENTIFIC CORRESPONDENCE

General exchanges on research ideas and projects, publications, visits and meetings, equipment and apparatus 1963-93. Similar in content to the main sequence but less developed and usually confined to one or two letters only.

In alphabetical order.

P.293 A-D

P.294 E-L

P.295 M-R

P.296 S-Y

UNINDEXED CORRESPONDENCE

P.297-P.300 Requests for reprints, information, data, references, models, atomic co-ordinates, samples of material, information on proposed or current research and publications, sent or received by Phillips. 1967-91. Material similar to, but less developed than, exchanges in E.128 and P.293-P.296.

In chronological order.

P.297 1967-69 (excluding requests for reprints of *Nature* and *Scientific American* articles which are at F.7 and F.12 respectively)

P.298 1970-74

P.299 1975-79

P.300 1980-91 and undated

Correspondence

P.301, P.302	Requests from colleagues, authors, editors, publishers to quote, reproduce diagrams and figures, borrow models, slides, videotapes or films for use in books and articles, or in lectures and teaching, received by Phillips 1967-91. Includes some letters of thanks. In chronological order.
P.301	1967-72
P.302	1973-91
P.303, P.304	Shorter correspondence to accompany, or to acknowledge receipt of, reprints, articles, theses, draft papers, progress reports, books or samples of material. Mainly sent to Phillips by authors and publishers but a few requested by him; some include scientific information on research in progress or personal news. In chronological order.
P.303	1967-75
P.304	1976-93

SECTION R

REFERENCES AND RECOMMENDATIONS

R.1-R.159

R.1-R.3

THESES AND HIGHER DEGREES

- R.1 Oxford University
- R.2 UK Universities
- R.3 Overseas Universities

R.4-R.6

UNIVERSITY EXTERNAL EXAMINING

R.7-R.66

APPOINTMENTS

- R.7-R.21 Advisory and Electoral Boards
- R.22-R.44 Evaluations and advice
- R.45-R.66 Personal references

R.67, R.68

AGRICULTURAL RESEARCH COUNCIL /
AGRICULTURAL AND FOOD RESEARCH COUNCIL

- R.67 Staff and appointments
- R.68 Research grants

R.69-R.83

MEDICAL RESEARCH COUNCIL

- R.69-R.75 Staff and appointments
- R.76-R.79 Cell Board research and equipment grants
- R.80-R.83 Research grants and comments

R.84-R.104

SCIENCE RESEARCH COUNCIL /
SCIENCE AND ENGINEERING RESEARCH COUNCIL

References and recommendations

R.105-R.125 UK FOUNDATIONS AND GRANT-GIVING INSTITUTIONS

R.126-R.152 OVERSEAS FOUNDATIONS AND GRANT-GIVING
INSTITUTIONS

R.153-R.155 AWARDS, PRIZES, HONOURS

R.156-R.159 PERSONAL

References and recommendations

THESES AND HIGHER DEGREES

The material may include invitation to examine a thesis or advise on the award of a higher degree, arrangements for oral examination, correspondence with a co-examiner or candidate, Phillips's notes on the thesis, suggestions for corrections, final report.

- R.1 Oxford University 1965-79.
- R.2 UK Universities 1964-89.
- R.3 Overseas Universities 1962-76, 1990.

UNIVERSITY EXTERNAL EXAMINING

- R.4 Leeds University 1972-76.
- Phillips was External Examiner in Biophysics 1972-75.
- Correspondence, draft papers for comment, arrangements.
- R.5 London University 1967-68.
- Phillips served on the Panel of External Examiners in Biophysics.
- Brief correspondence only.
- R.6 Portsmouth College of Technology (successively Portsmouth Polytechnic, Portsmouth University) 1966, 1974-78.
- Correspondence 1966 is on the proposed new M.Sc. in Molecular Structure submitted for validation to the Council for National Academic Awards (CNAA). A B.Sc. Honours Degree Course in Biomolecular Science was established in October 1973 and Phillips was invited to serve as External Examiner for the new course 1974-78.
- Correspondence principally with J.G. Scane, arrangements for examinations, comments, Phillips's assessment of the course.

References and recommendations

UNIVERSITY APPOINTMENTS

Advisory and Electoral Boards

- | | |
|----------|--|
| R.7 | <p>Cambridge</p> <p>John Humphrey Plummer Professorship of Biophysics (in succession to A.L. Hodgkin).</p> <p>Applications, commendations, correspondence October 1980 - August 1981.</p> |
| R.8 | <p>Essex</p> <p>Chair in Biological Chemistry. Phillips and R.J.P. Williams were external assessors. The post was first advertised in 1978 but no appointment was made. It was re-advertised in 1981.</p> <p>Applications, commendations, correspondence December 1978 - October 1981.</p> |
| R.9-R.11 | <p>Hong Kong</p> <p>Phillips was one of a three-man 'Consultancy to examine Equipment Requirements for the Hong Kong University of Science and Technology'. He accepted the invitation in March 1989, visited the university with other members of the consultancy on 24-26 July and contributed to the report submitted in September.</p> |
| R.9 | <p>Official correspondence, invitation, schedule of visit, information.</p> |
| R.10 | <p>Notes and comments on University's proposals and estimates by Phillips, members of his laboratory and other consultancy members.</p> |
| R.11 | <p>Draft report, Phillips's appendix on equipment provision for life sciences, brief correspondence.</p> |

References and recommendations

R.12-R.18A London

Phillips was frequently asked to advise the University on appointments and promotions, sometimes on an *ad hoc* basis and sometimes in a more formalised way as 'External Expert' on a Board of Advisors. Material includes invitations, correspondence, recommendations.

R.12 Board of Advisors/Standing Panel of Experts in Biophysics, 1968-76, 1980-87.

R.13 Board of Advisors on Crystallography 1968-78.

R.14 External Expert in Biology 1971.

R.15 External Expert, Review of Crystallography, Birkbeck College 1974.

R.16 External Expert, second Chair of Crystallography, Birkbeck College 1975-76.
Correspondence, applications, Phillips's notes.

R.17 Miscellaneous appointments 1976-77.

R.18 External Expert, Chair of Biophysics, King's College 1982.

R.18A External Expert, Rank Chair of Physics in relation to Surgery, 1986.

R.19 **Lund**

Chair of Molecular Biophysics. Phillips was one of the external expert members of the nomination committee.

Correspondence, report and evaluations, appeal against the expert committee's findings 1987-88.

References and recommendations

R.20 Portsmouth Polytechnic (later Portsmouth University).
Establishment of Professoriat 1979-80.

R.21 Warwick
Second Professorship in Biological Sciences 1971.

Evaluations and advice

These folders contain assessments or recommendations made by Phillips in answer to requests from universities or other institutions wishing to make senior appointments or promotions.

R.22-R.42 **UK universities and institutions**

Suggestions or evaluations for candidates for senior appointments, Vice-Chancellors, Principals, Professors, Directors etc.

R.22 Aberdeen 1990

R.23 Bath 1983

R.24 Birmingham 1985

R.25 Bristol 1983

R.26 Cambridge University and Colleges 1977, 1984, 1991, 1992

R.27 Durham 1989

R.28 East Anglia 1986

References and recommendations

- | | |
|------|-------------------------------|
| R.29 | Edinburgh 1975, 1986, 1993 |
| R.30 | Essex 1986 |
| R.31 | Glasgow 1983, 1986 |
| R.32 | Hull 1990 |
| R.33 | Leeds 1970-71, 1990 |
| R.34 | London 1973, 1986, 1987, 1990 |
| R.35 | Manchester 1986, 1988 |
| R.36 | Open 1989 |
| R.37 | Oxford 1989, 1992-93 |
| R.38 | Prudential Corporation 1982 |
| R.39 | Reading 1975 |
| R.40 | Salford 1989 |
| R.41 | Sheffield 1989, 1993 |
| R.42 | Strathclyde 1990 |

References and recommendations

- R.42A Warwick 1992
- R.43 USA universities and institutions
- Suggestions or comparative evaluations of candidates for senior appointments, Chairmen or Heads of Departments, tenure promotions etc. 1968-91.
- R.44 Requests to Phillips for suggestions for candidates for posts at post-doctoral or lecturer level, in new or expanding departments and research groups. Some in the UK but mainly overseas. Some scientific or general correspondence on research projects may be included. Many of the requests were circulated for information or suggestions to members of the laboratory and may bear their comments. 1963-89.

Personal references

These are Phillips's own references for individual candidates for appointments or promotions at colleges, universities and institutions in UK and abroad. Some may extend over several years and may include correspondence on research and careers, comparative evaluations, or updating of previous recommendations. They are presented in alphabetical order. The total timespan is 1958-93.

- | | |
|----------------|---------------|
| R.45 A | R.56 N-O |
| R.46 Ba | R.57 Pa-Pe |
| R.47 Bh-Bu | R.58 Ph-Pr |
| R.48 C | R.59 R |
| R.49 D-F | R.60 Sa-So |
| R.50 G-J | R.61 St-Su |
| R.51 Ki | R.62 T |
| R.52 Ku-L | R.63 U-V |
| R.53 Ma-Mi | R.64 Wa-Wh |
| R.54 Mo (1) | R.65 Wi-Wr |
| R.55 Mo (2) | R.66 X |

References and recommendations

AGRICULTURAL RESEARCH COUNCIL / AGRICULTURAL AND FOOD RESEARCH COUNCIL

R.67 Staff and appointments 1978, 1979.

R.68 Research grants 1981-87.

MEDICAL RESEARCH COUNCIL

Staff and appointments 1967, 1974-77, 1984-90

R.69 Appointment 1967.

R.70 Training and Manpower Committee Annual Scientific Staff Salary Review.
Correspondence, arrangements for meetings and recommendations 1974-76.

R.71 Training and Manpower Committee Special Panel on Non-Clinical Scientific
Staff Career Structure.
Correspondence, arrangements for meetings, reconsideration of decisions,
Phillips's notes, various dates November 1974 - December 1975.

P.72 Correspondence, notes etc. on claim for unfair dismissal arising from panel
decision. The claim was dismissed. Includes copy of Phillips's evidence
given on behalf of MRC. 1979.

R.73 Salary reviews, appointments, promotions.
Information, recommendations by Phillips and others. Various dates 1974-
77.

R.74 National Institute for Medical Research (NIMR) Computing Laboratory.
Appointment 1976.

References and recommendations

- R.75 Salary reviews, appointments, promotions.

Information, recommendations by Phillips and others. Various dates 1984-90.

Cell board research and equipment grants 1974-78

Applications for new grants, or for extensions or renewals of existing grants, with related correspondence and information, sent to Phillips for action as Chairman of the Cell Board.

- R.76 August 1974 - February 1975.
- R.77 June-August 1975.
- R.78 September-October 1975. Projects related to the commissioned research programme (see N.4).
- R.79 October 1975 - September 1976, October 1978.

Grant assessments and comments 1982-89

Includes grant applications, renewals and extensions and also Phillips's comments on research in progress at MRC funded establishments especially the Laboratory of Molecular Biology, Cambridge.

- R.80 1982
- R.81 1984
- R.82 1985-86
- R.83 1987-89

References and recommendations

SCIENCE RESEARCH COUNCIL / SCIENCE AND ENGINEERING RESEARCH COUNCIL

Research, equipment and appointment assessment 1966-89

The material may include correspondence, information, recommendations by Phillips and others (including members of the Laboratory), notification of full, partial or declined awards, progress reports on long-term continuation SRC grants etc. The applications are referred from various of the Council's committees, such as the Biological Studies, Chemistry, Data Compilation, Enzyme Chemistry and Technology, and Neutron Beam Research Committees.

R.84	1966.
R.85	1967.
R.86	1968.
R.87	1969.
R.88	1970.
R.89	1971.
R.90	1972 (1).
R.91	1972 (2). Applications for SRC Studentships in Enzyme Chemistry and Technology.
R.92	1973.

References and recommendations

- | | |
|-------|---|
| R.93 | 1974 January. |
| R.94 | 1974 April-May. |
| R.95 | 1974 September-October. |
| R.96 | 1975, 1977. |
| R.97 | 1984 January. |
| R.98 | 1984 March-April. |
| R.99 | 1984. Applications for participation in proposed co-ordinated programme in protein engineering. |
| R.100 | 1984 October. |
| R.101 | 1985 January. |
| R.102 | 1985 February-October. |
| R.103 | 1986, 1987. |
| R.104 | 1988, 1989. |

References and recommendations

UK FOUNDATIONS AND GRANT-GIVING INSTITUTIONS

Material includes recommendations for specific projects, and may also contain some correspondence on funding policies.

BP Venture Research Unit

R.105 Correspondence 1986.

Cancer Research Campaign

R.106 Correspondence 1979.

Imperial Cancer Research Fund

R.107 Correspondence, applications 1976, 1983.

Inter-University Council

R.107A Application 1971.

Leverhulme Trust

R.108 Correspondence, applications 1981, 1982, 1984.

R.109 Correspondence, applications 1986, 1987.

References and recommendations

R.110 Correspondence, applications 1988, 1990, 1991, 1992.

National Fund for Research into Crippling Diseases

R.111 Applications 1980.

Nuffield Foundation

R.112 Correspondence, application 1975, 1978

R.113 Correspondence, applications 1979

R.114 Correspondence, applications 1982, 1983, 1984.

R.114A Correspondence, applications 1992-93.

Scottish Home Office

R.115 Correspondence, applications 1984, 1988.

Wellcome Trust

R.116 Correspondence, applications 1976, 1980-83.

R.117 Correspondence, applications 1984-86.

R.118 Correspondence, applications 1987-90.

References and recommendations

Wolfson Foundation

Phillips was appointed a Trustee in September 1988 with periodic renewals. From that date the material includes meetings notes, information on funding projects and appointments.

- | | |
|-------|--|
| R.119 | Correspondence, applications 1983, 1986, 1987. |
| R.120 | Phillips's appointment as Trustee, correspondence, meetings, projects 1988. |
| R.121 | Meetings, projects, applications 1989. |
| R.122 | Meetings, projects, applications 1990. |
| R.123 | Renewal of Trusteeship, meetings, projects 1991. |
| R.124 | Renewal of Trusteeship, projects, applications 1992-93. |
| R.125 | Wolfson Family Charitable Trust: scholarships, awards, proposals, for laboratories and institutions in Israel 1989-92. |

OVERSEAS FOUNDATIONS AND GRANT-GIVING INSTITUTIONS

The material is presented in alphabetical order by country (or regional grouping, etc.), and by institution within each country.

Australia

- | | |
|-------|---|
| R.126 | Australian Academy of Science. Election 1971. |
|-------|---|

References and recommendations

- R.127 Australian Research Council. Review of Institute of Advanced Studies of the Australian National University. Phillips accepted the invitation but the dates proved impossible for him and he withdrew. Correspondence and papers 1989-90.
- R.128 Australian Research Grants Committee. Grant application 1978.
- R.129 CSIRO. Grant application 1985.
- R.130 Department of Education and Science Queen Elizabeth Fellowships Committee 1972.
- R.131 National Health and Medical Research Council. Grant applications 1982, 1985.

Belgium

- R.132 Fondation Francqui. Invitations to serve on Jury of Francqui Prize 1988, 1990.

Canada

- R.133 Medical Research Council. Grant applications 1966, 1968.

Denmark

- R.134 Kai Linderstrøm-Lang Endowment Fund.
- Phillips was invited in 1976 to act as one of two Trustees appointed by the International Union of Biochemistry (IUB), the other being C.B. Anfinsen. Correspondence, information, recommendations for the Linderstrøm-Lang Prize etc. 1976-85.

References and recommendations

- R.134A Natural Science Research Council. Evaluation of research in Crystallography. Phillips was invited to serve on the international panel but was obliged to decline. Correspondence, information 1985.

European Molecular Biology Organization (EMBO)

- R.135 Interview reports, references and comments on applications for EMBO Fellowships 1968-78, 1988, 1990.

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