

THE ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Report on the correspondence and papers of

SIR RUDOLF (ERNST) PEIERLS (B.1907)

physicist

1923-74

deposited in the Bodleian Library, Oxford

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Report on the papers of

SIR RUDOLF (ERNST) PEIERLS, C.B.E., F.R.S.

(b.1907)

Compiled by: Jeannine Alton
Harriot Weiskittel

Deposited in the Bodleian Library, Oxford, 1977

Collection of Sir Rudolf Peierls CSAC 52/6/77

Material added Sept. 1977.

Xerox copies of letters exchanged between Bohr and Peierls, now held in the Archives of the Niels Bohr Institute, University of Copenhagen, and made available through the courtesy of the Archivist, Dr. Erik Rüdinger:

C.30 Letter from Peierls 8.11.38 (in German)

C.32 Letter from Bohr re Ter Haar 19.3.47 see B.17, C.127 - C128

Letters exchanged May 1947 - Sept. 1948 re conference on "Problems of Nuclear Physics" organised by Peierls and Oliphant in Birmingham, 14 - 18 Sept. 1948; Bohr was invited but could not attend.

C.33 2 letters from Peierls March, June 1949 re his visit to lecture in Copenhagen

Letter from Peierls, and Bohr's reply, June/July 1949 re J. Lindhard's study with Peierls in Birmingham See C.188

Telegram from Bohr re his arrival in Oxford August 1949.

(Total 17 pages)

SIR RUDOLF PEIERLS

COLLECTION COMPOSED ALMOST ENTIRELY OF
CORRESPONDENCE, WHICH HAS BEEN GROUPED
BY TOPIC. CONTENTS HAVE BEEN DESCRIBED
AND ANALYSED BUT NOT CALENDARED. FULL
INDEX AND CROSS-REFERENCES.

DESCRIPTION OF THE COLLECTION

The papers were received from Sir Rudolf Peierls in August 1974, after his retirement from the Wykeham Chair of Physics, Oxford University. They refer therefore only to his activities up to 1974.

The collection, which consists almost entirely of correspondence written and received, covers all aspects of Peierls's career to 1974, including scientific research, service on committees, advisory boards, etc., publications, appointments, overseas visits and the like. (See also the introductory note in Section C. Scientific Correspondence, on p. 15.)

Because of his own highly distinguished scientific work and his knowledge of the world of physics in one of its heroic periods, his involvement with work on the atomic bomb during the Second World War and with disarmament and the Pugwash movement after it, Peierls has already attracted the attention of historians, and has given reminiscences and accounts of episodes in his life, on tape, radio, television, in print and by correspondence. Several of these have been brought together in a sub-section of Section A, items A.16 - A.28, and in D.22 - D.23. Other items not in the present collection are mentioned in Locations of other material below. Peierls's retirement from the Wykeham Chair was marked by a Symposium held in Oxford 11-12 July 1974. Correspondence with participants, and tapes of the talks and discussion, are contained, by courtesy of the organisers Dr. I.J.R. Aitchison and Dr. J.E. Paton, in A.25 - A.28, and include many personal and scientific recollections of Peierls and his career.

LOCATIONS OF OTHER MATERIAL

Retained by Peierls: (Peierls's own memorandum about this material is included in A.1)

1. All papers dealing with matters after 1974.
2. Domestic, personal and family correspondence, some relating to his early career.
3. Some private papers relating to his professional life.
4. Taped lectures, viz: 4 Pauli Lectures given at Zürich; 4 lectures (3 tapes) on 'Physics and Philosophy' given at Oxford; 1 autobiographical talk given at Clarendon Laboratory, Oxford.

United Kingdom Atomic Energy Authority, Harwell, Archives:

Reports, correspondence and a diary relating to work during the Second World War. When these papers are declassified they will join those already declassified in the Public Record Office, London (see Item A.21). Some miscellaneous declassified reports appear in Item D.24 of the present collection.

N.B. The texts of the two versions of the 'Peierls-Frisch Memorandum' on the feasibility and power of an atomic weapon have been published in:

Britain and Atomic Energy 1939-45, M.M. Gowing, Macmillan, 1964, pp.389-93.

Tizard, R. Clark, Methuen, 1965, pp.215-217 (fuller version).

Sources for History of Quantum Physics, University of California at Berkeley:
taped interview (see Item A.18).

Center for the History of Physics, American Institute of Physics, New York:
taped interview (see Items A.1 and A.20).

CONDITIONS OF ACCESS

Not all the material in the collection is yet available to readers. Items marked with an asterisk (*) are restricted until 1 January 2000.

CONTENTS OF THE HANDLIST

		<u>Item</u>	<u>Page</u>
A.	Biographical and personal	A.1 - A.28	5
B.	University and academic (at Birmingham and Oxford)	B.1 - B.47	11
C.	Scientific correspondence	C.1 - C.359	15
D.	Publications, broadcasts, reports	D.1 - D.25	37
E.	Conferences, symposia, invitation lectures, visits	E.1 - E.35	42
F.	Committees, Societies, Consultancies	F.1 - F.50	50
	Index to principal correspondents		56

Awarded C.B.E. 1946, Knighthood 1968. Royal Medal, Royal Society 1959. Lorentz Medal, Royal Netherlands Academy of Sciences 1962. Planck Medaille, Association of German Physical Society 1963. Guthrie Medal, Institute of Physics and Physical Society 1968. Hon. Fellow, Institute of Physics 1974.

Founding member of the Atomic Scientists Association and member of their Council during its existence. Participant in the Pugwash Conferences on Science and World Affairs. A member of Continuing Committee 1963 to 1974. Chairman of Continuing Committee 1970 to 1974.

Married in 1931. One son, three daughters.

A. BIOGRAPHICAL AND PERSONAL (A.1-A.28)

	Biographical and early career	A. 1-A. 2
	Honours and awards	A. 3-A. 9
	General personal correspondence	A.10-A.15
	Autobiographical and historical reminiscences	A.16-A.28
A.1	Biographical notes, bibliography. A narrative chronology entitled 'Peierls's War Years' has been extracted from correspondence with Charles Weiner and listed here for ease of reference (see also A.20).	
A.2	Early work and career:	
	Ms. Essay written at school on 'Today's school from the point of view of the pupil' (in German).	1923-24
	Ms. notes for a seminar given in Munich (in German).	1927
	Offer from Professor Dr. W. Lenz of an assistantship in the Institute for Theoretical Physics, University of Hamburg. (Ms. letter in German.) Peierls provisionally accepted the offer and then subsequently withdrew his acceptance when it became clear that Hitler would come to power in Germany.	1933
A.3-A.9	Honours, awards and elections and letters of congratulation:	
A.3	Certificates of honour and accompanying correspondence:	
	Fellowship of the Institute of Physics	1943
	C.B.E.	1946
	Medal of Freedom with Silver Palm, U.S.A.	1947
	Royal Medal, Royal Society	1959
	Foreign Honorary Member, American Academy of Arts and Sciences	1962
	Honorary Associate, College of Advanced Technology, Birmingham (now University of Aston)	1963
	Guthrie Prize and Medal, The Institute of Physics and the Physical Society	1967
	Knighthood	1968
	Honorary Fellow, The Institute of Physics	1973
A.4	Honorary Degrees:	
	D.Sc. University of Liverpool	1960
	D.Sc. University of Birmingham	1967
	D.Sc. University of Edinburgh	1969
	Correspondence re arrangements for ceremonies and dinners, letters of congratulation.	
A.5	Letters of congratulation on the award of the Royal Medal by the Royal Society.	1959

- A.6 Correspondence with Oxford and Birmingham Universities re offer 1961-63
and acceptance of the Wykeham Chair of Physics, Oxford.
- A.7 Letters of congratulation on Peierls's election to the Wykeham 1962
Chair.
- A.8 Award of the Lorentz Medal by the Royal Netherlands Academy 1962
of Science and Letters: correspondence with the Academy re
arrangements for the presentation of the medal, text of Peierls's
reply at the ceremony on 24 November, printed report of the
meeting. Correspondence re arrangements to give a seminar
in Leiden.
- A.9 Letters of congratulation on the award of the Max Planck Medal. 1963
(See also E.5 for correspondence re travel arrangements to
Hamburg to receive the Medal.)
- A.10 Congratulatory letters written by Peierls and some replies from 1950-65
recipients (in date order).
- A.11-A.12 2 files of miscellaneous personal correspondence: letters of
thanks, invitations, replies to appeals, requests for inter-
views, etc. A.12 includes correspondence with Mark Boxer
of The Times who drew a caricature of Peierls for New College
that is also reproduced on the cover of the retirement
symposium volume. (See also A.25.)
- A.11 1943-63
- A.12 1965-74
- A.13 Correspondence re various social invitations, valedictory 1950-74
lectures, visits, etc.
- A.14 'Consumer Complaints': correspondence with airlines, shops 1962-73
and organisations re poor service, invoicing errors and the
like.
- A.15 Correspondence re a gift for Madame S. Bonnevey, widow of 1964-65
Georges Bonnevey who had worked in Birmingham with
Peierls, 1959-61: letter sent by Peierls to Bonnevey's
colleagues, replies from contributors, letters of thanks from
Mme. Bonnevey. (See also C.38.)
- A.16-A.24 Autobiographical and historical reminiscences.

Peierls received many requests from historians and biographers for information regarding the development of quantum physics and for his recollections and reminiscences of scientific colleagues. He answered at length the many questions put to him and commented on draft manuscripts with care and fairness. This correspondence has been brought together with other shorter material relating to the history of science and presented in date order with a brief indication of the subject matter.

- A.16 Correspondence with W. Stanners re modern warfare and its morality (lengthy letter from Peierls on this subject). 1946
- Correspondence with Alexander Sachs re his testimony before the US Senate Committee on Atomic Energy. 1946
- 'I am not perturbed', statement by Peierls for publication in the Sunday Express in refutation of its article of 29 October 1950, entitled 'Perturbed Men' which attempted to represent the attitude of foreign-born scientists as a result of the Pontecorvo case. (See also C.42, C.109, C.266, C.281.) 1950
- Correspondence with F.G. Gregory re cancellation of invitation to Professor C.F. Powell to lecture in Germany. (See also C.250.) 1953
- Ms. on 'The Lesson of the Fuchs case', 7pp. with Peierls's recollections of Fuchs and his reflection on security and its consequent social problem. n.d., probably 1952. 1952
- Correspondence with Professor Hugh Trevor-Roper re his statement in a review of a book on the Oppenheimer case that Oppenheimer had resided in Cambridge after the hearings. 1955
- Correspondence with Martin J. Klein re biography of Paul Ehrenfest. (See also C.92.) 1957
- 'The bias of nature', article by J. Bronowski sent for discussion with Peierls. 1957
- A.17 Correspondence with H.V. Rowley re the history of the Atomic Weapons Research Establishment. 1958
- Correspondence with Franz Bergel re apartheid in South African universities. 1959
- Correspondence with Mrs. Nancy Arms re her proposed biography of Sir Francis Simon (published as A Prophet in Two Countries). (See also C.281-C.282.) 1960
- Letter from Norwood Russell Hanson re history of the positive electron. 1960
- Correspondence with Melania Serbu re transverse waves in liquid and her correspondence with Einstein 1928-48 (in German). Includes correspondence with the Einstein estate and photocopy of Einstein's letter to Miss Serbu of 9 January 1929. 1959-62
- A.18 Letter from John Wheeler re the 'sources for the history of quantum physics' project (Peierls was interviewed by John Heilbron in June 1963 for this history). 1962
- Correspondence with Walter Schneir re the Los Alamos project, Klaus Fuchs and the Soviet nuclear weapons programme. 1961-63
- Correspondence with Ronald Clark re the Frisch-Peierls memorandum. 1963

- Correspondence with Edward Lilly re the development of the concept of dislocations. (See also C.229, Peierls's correspondence with Orowan, and E.11.) 1964
- Letter from Lansing Lamont re his book Day of Trinity and the Los Alamos project; Peierls's brief reply. 1964
- Correspondence with N. Kemmer re his obituary notice of Hans Halban in The Times; copy of the notice. (See also C.130.) 1964
- A.19 Correspondence with Margaret Gowing re research for her book Britain and Atomic Energy, 1939-45: extensive comments and recollections by Peierls. Includes extracts from a June 1963 memorandum to Mrs. Gowing by Sir Henry Dale re British scientists' attitudes to the use of the bombs against the Japanese. Later correspondence re Peierls's article on Oppenheimer for the Dictionary of Scientific Biography. (See also D.9.) 1961-63
1972
- A.20 Correspondence with Malcolm D. Ferrier re Frisch-Peierls memorandum. 1965
- Correspondence with A.N. Bryan-Brown re speech about V. Weisskopf (the Latin oration on the occasion of his honorary degree from Oxford where Bryan-Brown was Public Orator). (See also C.322 and C.330.) 1965
- Correspondence with Edwin M. McMillan re Oliphant's proposal for a high energy proton accelerator. 1967
- Correspondence with J. Thewlis re 'Peierls stress' and non-local potentials. 1967
- Correspondence with R.S. Shankland re the Compton effect. 1969
- Correspondence with Charles Weiner re his tape-recorded oral history interview with Peierls (August 1969), correction of the transcript, etc. This tape and transcript are deposited in the Center for History of Physics, American Institute of Physics, New York. A narrative chronology titled 'Peierls's War Years' (1940-44), perhaps prepared by the Center as background information for C. Weiner before the interview, has been extracted and listed separately. (See Item A.1.) 1969-73
- Correspondence with Robert Reid re his book Tongues of Conscience: Peierls's comments on the manuscript of one chapter, especially re the refugee scientists in Britain. (See also D.23.) 1968-69

- Correspondence with Ronald Clark re his biography of Albert Einstein: Peierls's comments on that part of the manuscript dealing with Einstein's reaction to Szilard's proposal in 1939 for a nuclear weapon. Peierls's letter includes a query of Clark's statement that fission was "in some ways the climax of half a century's work." 1970
- A.21 Correspondence with David H. Frisch re his paper 'Scientists and the Decision to Bomb Japan without a Demonstration', enclosing copies of letters from Gen. Leslie Groves, Vannevar Bush and James Conant who had commented on the manuscript and on the events described therein. 1970
- Correspondence with Lorna Arnold of the UK Atomic Energy Authority re Peierls's wartime atomic energy papers. When these papers are declassified they will be deposited in the Public Record Office, London. (See also D.24.) 1970
- Letter to Kurt Mendelssohn answering historical questions re the estimation of the critical size and the resulting work on isotope separation. (The papers do not include a copy of Mendelssohn's questions.) 1970
- Remarks on the pre-history of the discovery of slow neutron capture by Maurice Goldhaber: photostatic copy of the paper. 1971
- Correspondence with A. Ince of Anglo Great Lakes Corporation Ltd. who was attempting to locate a pre-print of a paper 'The production and properties of graphite for reactors' read at the Atoms for Peace Conference in Geneva, 1955. 1971
- Letter to L. Van Hove re Pauli and Heisenberg. (See also C.138 and C.234-240.) 1971
- A.22 Correspondence with Richard J. Eden re Paul Dirac on occasion of Dirac's 70th birthday; 5 typescript pages of Peierls's reminiscences and recollections. (See also C.82.) 1971
- Correspondence with Mrs. Robert Oppenheimer re proposed biography of her husband: 4 typescript pages of Peierls's reminiscences and recollections of Oppenheimer. (See also A.19, D.18, C.227-228, D.9.) 1972
- Correspondence with B.H. Muller re Leo Szilard: notes by Muller of his interview with Peierls (June 1972) annotated, amended and expanded by Peierls. 1972
- Comments by Peierls on Charles P. Enz's article on Pauli. (See also C.240.) 1972

Correspondence with Charles Weiner and Otto Nathan (trustee of the Einstein estate) re some Einstein-Warburg correspondence. 1972-73

Correspondence with W.E. Frahn re the 'Bohr, Peierls and Placzek paper' (never published: see Items C.29-35). 1974

NOTE: The following files also contain correspondence and/or writings of a special historical/autobiographical interest, although this list is by no means complete:

- C.218 Correspondence with N.F. Mott re history of metal-insulator transitions.
- C.265 Correspondence with P. Rosbaud re the German scientific effort during the War.
- D.10 Autobiographical note by Peierls for Modern Men of Science.
- D.18 Obituary notices of G.N. Watson, M. Born, L. Rosenfeld; Peierls's review of Lawrence and Oppenheimer and his entry on J.R. Oppenheimer for A Biographical Dictionary of Scientists.
- D.22-D.23 Correspondence re various interviews, recordings and television appearances made by Peierls.
- E.11 Typescript of talk by Peierls on "The History of the 'Peierls-Nabarro' Force".

Miscellaneous reviews and articles mentioned in Section D, see especially D.12 and D.13.

A.23 Correspondence re 'Journal of Jocular Physics' published on the occasion of Bohr's 50th, 60th and 70th birthdays (especially re Peierls's contribution 'The Atom that Bohr Built'). 1955-71
Correspondence re other verse and songs by Peierls.

A.24 One folder of press-cuttings, especially re the dropping of the atomic bomb and the Oppenheimer security case. c.1945-54

A.25-A.28 Retirement Symposium

A.25 One folder of material re the symposium held in Peierls's honour on the occasion of his retirement from the Wykeham Chair. The programme of the symposium, held in Oxford 11-12 July 1974, included contributions by H. Bethe, O. Frisch, R. Berman, S.F. Edwards, G.E. Brown, D. Thouless, R. Dalitz, V. Weisskopf and D.H. Wilkinson. The file contains a copy of the initial letter of invitation, replies (of acceptance and of regret) with appreciations and reminiscences of Sir Rudolf and Lady Peierls, programme, menu for the dinner held in Christ Church, group photograph, correspondence with some of the speakers. The proceedings were published in a volume titled Rudolf Peierls and Theoretical Physics, ed. I.J.R. Aitchison and J.E. Paton, Pergamon Press, 1977.

A.26 One file of correspondence with Pergamon Press re the publication of the volume.

A.27-A.28 Two tapes of the talks and discussions.

B. UNIVERSITY AND ACADEMIC (B.1-B.47)

N.B. Items marked with an asterisk (*) are restricted until 1 January 2000.

University of Birmingham	B. 1 - B.11
University of Oxford	B.12 - B.14
General educational policy and ideas	B.15 - B.16
University examining	B.17 - B.23
References	B.24 - B.47

B.1-B.11 University of Birmingham. Peierls was Professor of Applied Mathematics (the title was changed to Mathematical Physics in 1946) from 1937 to 1963. The index to correspondents in Items B.1-B.8 is selective. See also correspondence with G.E. Brown (C.51-C.53), R.H. Dalitz (C.75) and B.H. Flowers (C.102 and C.103) re administration and teaching in the Department.

B.1-B.2	Correspondence with visitors to the department (for meetings with Peierls or other staff members, to deliver lectures or colloquia, for examining). 2 files in date order.	1948-63
B.3	Correspondence with prospective research students and colleagues from other universities <u>re</u> possibilities for study, employment or sabbatical term in department.	1948-62
B.4-B.5	Correspondence with and <u>re</u> students: placing in jobs or research departments in other universities, publication of papers, recruiting, grant applications. 2 files in date order.	1947-73
B.6	Misc. short correspondence <u>re</u> department: structure, examining, possible industrial grants, equipment, library purchases, scheduling of lectures, finances, etc.	1946, 1951-65
B.7	Correspondence with G.V. Chester, G.H. Burkhardt, T.H.R. Skyrme, Eric Canel, <u>re</u> administration of the Department of Mathematical Physics following Peierls's move to Oxford.	1963-64 1969-74
B.8	Invitation to become an Honorary Member of the Birmingham Senior Common Room. Correspondence <u>re</u> secretarial and administrative matters after Peierls's move to Oxford.	1963-65

- B.9-B.10 Peierls's correspondence with the Vice-Chancellor, University of Birmingham, during his service there. In addition to dealing with matters relative to university business, the correspondence contains much information of a biographical and personal nature, such as Peierls's war work and consultancies, offers of university chairs, journeys abroad for conferences, invitations to spend sabbatical leave in institutes or universities abroad. More strictly 'Birmingham University' topics include matters relative to the organisation, administration and finance of the department, Senate and university committee meetings, arrangements for visits by distinguished scientists, university housing and construction projects, policy on retirement age for professors, social invitations, 1954 Home Universities Conference (see also Item E.1) and the like.
- B.9 with Sir Charles Grant Robertson (one letter only). 1939
with Sir Raymond Priestley. 1939-52
- B.10 with Sir Robert Aitken (see also Item A.6, a file of correspondence re Peierls's election to the Wykeham Chair and his subsequent move to Oxford). 1952-58
- B.11 Correspondence re a proposed research institute in mathematical physics to be linked with the Birmingham department: draft proposals by Peierls, correspondence re applications for grants from charitable foundations. 1959-61
- B.12-B.14 Department of Theoretical Physics, Oxford. Peierls was the Wykeham Professor of Physics from 1963 until his retirement in 1974; see also Item A.6, a file of papers relative to his election to the Chair. Correspondents are selectively indexed.
- B.12 Correspondence with and regarding students: students' queries re admission to department, placing of students for research, topics for research. 1963-74
- B.13 Requests to visit or work in department and for meetings with Peierls; letters of thanks following visits; Peierls's invitations extended to colleagues abroad for sabbatical leave in Oxford department. Some scientific correspondence arising. (File includes typescript of a paper on 'The Education of Astronomers', a contribution to a discussion meeting on the topic to be held at the Royal Astronomical Society, prepared by D.E. Blackwell and M.G. Adam, and sent to Peierls for information.) 1963-74

B.14 Correspondence re departmental business: examining, supervision, structure, publications, some correspondence re university matters. Invitations and lists of guests for annual Michaelmas Term parties in the department. Correspondence with Registrar re leaves of absence, departmental allowances. (See also Item E.11, correspondence between Peierls and his secretary during his sabbatical leave from the department in 1967, and Items C.127 and C.128, his correspondence with D. ter Haar, much of which pertains to departmental business.) 1963-74

B.15-B.16 Correspondence re various aspects of university and academic policy. Peierls's advice was frequently sought on such matters; his careful and thoughtful replies, often at some length, document his interest and concern.

The correspondence is in date order, and a brief note of the questions to which Peierls was responding is given below.

B.15	with J.C. Gunn <u>re</u> proposal to form Chair of Applied Mathematics at Glasgow.	1954
	with R.A. Rankin <u>re</u> Scottish secondary school education.	1959
	with Th. V. Kaneliopoulos <u>re</u> establishment of School for Physics, Athens. (See also C.164.)	1961
	lengthy letters to Whitehall (and correspondence with Sir Robert Aitken) <u>re</u> the government's financial policy towards universities. (See also Item F.20.)	1962
B.16	with A.G. Watts <u>re</u> interim year between school and university.	1965
	with Sir Christopher Cox <u>re</u> brain drain in India.	1965
	with Sir Harrie Massey <u>re</u> overseas students' fees.	1967
	with Officers of Oxford Society for Social Responsibility in Science <u>re</u> their policies.	1968
	with Association of University Teachers <u>re</u> 'direct action' over salaries.	1969
	with Birmingham University Registry <u>re</u> history of inaugural lectures.	1972
	with J.F. Allen <u>re</u> Science Research Council selectivity.	1971
	with Peter Hancock <u>re</u> tape recording of material on quantum theory for use in schools.	1974

NOTE: The following files in Section C may be referred to for further correspondence re various aspects of academic policy and philosophy:

C.90	S.F. Edwards
C.93	L.R.B. Elton
C.131	J.B.S. Haldane
C.135	D.R. Hartree
C.163	P.K. Kabir
C.168	N. Kemmer
C.217}	N.F. Mott
C.218}	
C.274	E.E. Salpeter

- | | | | |
|-------------|---|----------|--------|
| B.17 | Misc. correspondence <u>re</u> external examining (occasionally includes dissertation reports). Minor correspondence <u>re</u> electoral boards. | 1951-73 | |
| B.18 | Reports on dissertations. | pre-1963 | |
| B.19 | File of papers relative to examining at Bradford Institute of Technology (Peierls acted as external examiner to the mathematics course for the Diploma in Technology): correspondence <u>re</u> meetings, setting of examinations, assessments of questions and of marking, recommendations for awards. | 1963-66 | |
| B.20 | Correspondence with W.H. McCrea (1951) and H.S.W. Massey (1946-49) <u>re</u> their external examining for the Birmingham department. See also C.135 (D.R. Hartree), C.168 (N. Kemmer) and C.254 (M.H.L. Pryce) for further correspondence on the same topic. | 1946-51 | |
| B.21 | Commonwealth Scholarships (Peierls acted as a member of advisory panel to the awarding committee): correspondence, reports. | 1959-66 | |
| B.22 | Requests from university officials and heads of departments for Peierls's suggestions and advice. | 1947-71 | |
| B.23 | Not used. | | |
| B.24-B.47 | References and testimonials. These files are restricted and the correspondence is not indexed. | | |
| * B.24 | George Eastman Professorship, Oxford. | 1963-71 | |
| * B.25-B.41 | References and testimonials for individuals, arranged alphabetically by name of candidate: | | |
| * B.25 | A-BI | * B.34 | L |
| * B.26 | Bo-Bu | * B.35 | Mac-Me |
| * B.27 | C | * B.36 | Mi-N |
| * B.28 | E-F | * B.37 | O-P |
| * B.29 | G | * B.38 | R |
| * B.30 | H-He | * B.39 | Sa-Sh |
| * B.31 | Hi-I | * B.40 | Si-T |
| * B.32 | J | * B.41 | V-Z |
| * B.33 | K | | |

B.42-B.47 Suggestions for appointments, comparisons of several candidates. 6 folders in date order:

* B.42	1950-55
* B.43	1956-59
* B.44	1960-63
* B.45	1963-64
* B.46	1965-68
* B.47	1970-74

C. SCIENTIFIC CORRESPONDENCE (C.1-C.359)

The correspondence in this section is with individuals. Other letters relating to committees, publications, university matters, etc. will be found in the relevant sections, and a complete index to the correspondence appears on pp.56-71.

When the correspondence is extensive, and/or the correspondent is of note, the material is lodged in a personal file or files, e.g., Niels Bohr, C.29-C.36. In cases where only one or two letters were exchanged with a correspondent on some point of scientific interest, these have been grouped together in a miscellaneous file, e.g., C.1, C.9, which occasionally break strict alphabetical sequence. With such exceptions, the material is presented alphabetically, dated, and with an indication of the language(s) in which it is conducted. An indication of the content is given only when it is of special personal or scientific interest. Not all the letters survive, and a note has been made in the list below in cases where only Peierls's carbon copy remains (the names of these correspondents do not appear in the general index). Cross-references are given to principal individuals, research or activities mentioned elsewhere in the collection, but when the correspondence deals with numerous projects and personnel within a department it has not been practicable to cross-reference them all.

The correspondence deals mainly with scientific matters, though it contains many personal and friendly references. Of particular interest are the long exchanges of letters with Hans Bethe (C.15-C.19), Niels Bohr (C.29-C.36), Nevill Mott (C.213-C.218) and Wolfgang Pauli (C.234-C.240), as well as the shorter correspondence with Max Born, R.H. Fowler, Werner Heisenberg, Lev Landau, George Placzek, Robert Oppenheimer and others. Peierls has drafted or approved the descriptive entries for these principal correspondents or collaborators of his earlier years.

In addition, the correspondence shows the activity and international reputation of Peierls's departments at Birmingham and, after 1963, at Oxford. His concern for the selection, scientific progress, pastoral care and subsequent career of his research students is constantly in evidence.

Some of the correspondence is currently subject to restricted access; see the general note on conditions of access on p.2.

* C.1	Akobjanoff, Lev	1965
	Allcock, G. R.	1974
	Aliibone, Thomas Edward	1963-64
	Apostolakis, A. J. (Peierls's carbon only)	1961
	Austern, Norman	1959-62
* C.2	Aitchison, Ian Johnstone Rhind	1959-63
C.3	Atkinson, D.	1970
* C.4	Aughtie, Frank	1961, 1971
* C.5	Baldin, Aleksander Mikhaïlovich	1957-58
* C.6	Barrett, Roger	1971-72
	Berggren, Tore	1970
C.7	Bardeen, John	1951, 1956-57
C.8	Barker, Fred C.	1947-50
C.9	Barschall, H. H. (Peierls's carbon only)	1949
	Batchelor, George Keith	1968
	Bates, David Robert	1949
	Baynes, Tom Hamilton	1950
C.10	Beck, Guido	1951, 1961
	Belinfante, F. J. (See also C.274)	1949
* C.11	Bég, Mirza Abdui Baqi	1958-61
C.12	Bell, John Stewart	1951-58
C.13	Berg, W. F. (1936 correspondence in German)	1936, 1947
C.14	Berliner, Arnold (in German)	1932
	Berthelot, A.	1947
C.15-C.19	Bethe, Hans Albrecht	1927-62

Bethe and Peierls were fellow students in Munich in 1926-28 and became friends. They were together in Manchester in 1933-34, and in Los Alamos in 1944-45. The correspondence is about physics, mutual visits and invitations to colleagues, and about personal affairs. Early letters are in German, and all are full of obscure references to private jokes, to quotations from anecdotes, etc. The sequence of letters is not complete.

See also C.197 for correspondence re Bethe's 60th birthday volume.

C.15	1927-39 (in German)
C.16	1946-49
C.17	1950-53
C.18	1954-62
C.19	1964-72

C.20	Bhabha, Homi Jehangir	1937, 1946, 1952
C.21-C.23	Blackett, Patrick Maynard Stuart	1930-54
C.21	1930-38. Correspondence re scientific work: 'Pauli's suggestion about "neutrons"' (now called 'neutrinos') (1930-31); Blackett's papers sent to Peierls for his comments (1936-37). File includes a set of notes and calculations (in Peierls's hand) on 'Blackett paper I' and one page (in Blackett's hand) of notes on 'scale drawing of chamber with counters'.	
C.22	1946. Correspondence re Atomic Scientists' Association, especially relating to proposed statement to be issued by the Council on the international control of atomic weapons. (See also C.54, F.4-F.8.)	
C.23	1947-54. Correspondence re Atomic Scientists' Association conferences; re scientific matters; re Blackett's book <u>Military and Political Consequences of Atomic Energy</u> . (See also F.4-F.8.)	
C.24	Blackman, Moses Blatt, John Bleaney, Brebis (Peierls's carbon only)	1938-39 1953 1958
C.25	Blin-Stoyle, Roger John C.25 1953-54 *C.25 1955-57, 1963-70	1953-57, 1963-70
C.26	Bloch, Claude (Peierls's carbon only)	1950-52, 1962
C.27	Bloch, Felix (1931 letter in German)	1931, 1948-54
C.28	Blokhintzev, D. I. (in Russian)	1946-47
C.29-C.36	Bohr, Niels Henrik David	1936-60

Peierls visited Bohr in Copenhagen repeatedly for conferences or just for consultation. The first visit was probably in 1931. The letters are about physics, about the troubles that L.D. Landau was having, and about arrangements for mutual visits.

About 1938 Bohr, Peierls and Placzek (who then spent much of his time in Copenhagen) discussed nuclear reactions and reached conclusions which were to be embodied in a joint paper. Drafts of portions of this paper were discussed in Copenhagen, on visits by Placzek to Birmingham, and by letter.

No satisfactory version had been arrived at when the war interrupted communications. Various drafts had, however, been shown or given to many other physicists so that the 'paper' was frequently cited - probably the most frequently cited unpublished, indeed unwritten, paper. After the war, there

were further attempts to agree on a text, but they were finally abandoned.

See also A.22, C.9, C.46, C.245 for other references to or correspondence about this paper.

Correspondence after 1946 (C.32-C.36) is addressed to, and signed by, 'Uncle Nick'. This refers to Bohr's nom de guerre Nicholas Baker, under which he travelled and worked during the Second World War. His older colleagues and friends adopted the name permanently in their subsequent dealings with him. Bohr's son, Aage, who escaped to England with him in the war, was known as James Baker, or Jim.

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|--------|--|---|---------|
| C.29 | 1936-37 | (in German). | |
| C.30 | 1938 | (some of Peierls's letters are in German). | |
| C.31 | 1939 | | |
| C.32 | 1946-48 | (includes an abstract of address by Bohr at the Physical Society Conference in Cambridge in the summer of 1946 on 'Problems of Elementary Particle Physics'). | |
| C.33 | 1949-50 | (includes typescript of Bohr's 'Tentative Comments on Atomic and Nuclear Constitution, 15-8-49'). | |
| C.34 | 1954-56, 1960 | | |
| C.35 | Various typescript drafts of the Bohr-Peierls-Placzek paper; none are dated: | | |
| | 29 pp. | typescript (top copy) | |
| | 5 pp. | carbon of typescript | |
| | 6 pp. | typescript (top copy) titled 'Evaluation of Dispersion Formula' | |
| | 2 pp. | carbon of typescript | |
| | (See also C.245, which contains another draft.) | | |
| C.36 | 1962-63, 1969 | correspondence <u>re</u> various memoirs of Bohr; see also C.68. | |
| * C.37 | Bohr, Aage (Peierls's carbon only) | | 1958 |
| | Bowen, Richard A. | | 1960 |
| | Boya, Luis J. | | 1970-73 |
| C.38 | Bonnevay, Georges (see also A.15) | | 1959-60 |
| * C.39 | Boon, Michael H. | | 1952-61 |
| C.40 | Bopp, Fritz (some letters in German) | | 1948-51 |

C.41-C.42	Born, Max (early letters in German) (see also C.140, D.12, D.14, D.18)	1936-37 1946-54, 1963, 1967
C.41	1936, 1937, 1946, 1948-49	
C.42	1950-54, 1963, 1967	
C.43	Bragg, William Lawrence Peierls spent the academic years 1933-35 in Bragg's department at Manchester. One exchange of letters in 1937 relates to problems in which both had then been interested. The rest are about an invitation to Fermi (1947) (unsuccessful) and about participants to a Solvay Conference in 1953.	1937-61
*C.44	Brailsford, Alan David	1951-59, 1971
*C.45	Brandow, Baird H.	1957-59
C.46	Breit, Gregory Brodie, Laird C. (see also Takeo, M., C.297) Brueckner, Keith A. Burton, W. Keith	1964, 1968 1967 1952, 1954, 1957 1952
C.47	Brenner, Sheila (see also C.51) C.47 1951-54 *C.47 1955-59	1951-59
C.48	Brentano, John C. M. (1936 letter is in German)	1936, 1945, 1953
*C.49	Bretscher, Egon	1950-56
C.50	Brode, Robert B.	1950-51
C.51-C.53	Brown, Gerald Edward	1949-74
C.51	1949-54	
*C.52	1955-59	
*C.53	1960-74 (includes typescripts of 2 papers by Brown and collaborators, and typescript of obituary notice of H.W.B. Skinner by Peierls for publication in 'Nuclear Physics').	
C.54	Burhop, Eric Henry Stoneley (includes correspondence re Atomic Scientists' Association, of which Burhop served as secretary, and its publicity, press statements, officers (see also C.22-C.23, F.4-F.8).	1946-51, 1965 1973
*C.55	Burke, Joseph Terence Anthony	1960-63
C.56	Butler, Stuart T. C.56 1948-54 *C.56 1956-60	1948-60

*C.57	Byers, Nina	1956-63
C.58	Casimir, Hendrik Brugt Gerhard (1945 letter in German)	1945, 1950, 1971
C.59	Cassels, James Macdonald (see also C.66)	1952-53
C.60	Chadwick, James (see also C.65)	1935, 1948-49, 1951
C.61-C.62	Chan, Hong-Mo (includes drafts of papers)	1955-65
* C.61	1955-60	
* C.62	1961-65	
* C.63	Chisholm, J. S. Roy	1964-67
C.64	Chrétien, Max (1950-52 correspondence in German)	1950-57
C.65	Clementel, Ezio	1949, 1953-55
C.66-68	Cockcroft, John Douglas	1939-66
C.66	1938 (Peierls's carbon only), 1939-54 (see also C.59)	
* C.67	1955	
* C.68	1956-66 (see also C.36)	
	C.67 includes programme and papers relating to 'Symposium upon Machines for High Energy Physics in U.K.' Harwell, 13 May 1955, and copies of letters from British physicists in response to enquiry by UKAEA re high energy particle accelerator programme, 1955.	
	C.68 includes a copy of draft notes by Peierls for a panel talk at MIT on 'The Future of The Physical Sciences' 1961 (Cockcroft was also a member of the panel).	
C.69	Coleman, Kenneth Ray	1946-47, 1950
C.70	Coulson, Charles Alfred	1948-52, 1964, 1973
C.71	Cade, R. di Castro, Carlo Champion, Frank Clive Chapman, Sydney Corben, Herbert S. Cottrell, Alan Howard	1949 1965 1947 1940 1953 n.d.
C.72	Delves, L. M. Dick, B. G. Domb, Cyril	1960, 1966 1954 1947, 1951

C.73	Dabrowski, Janusz Karol	1956-63
C.74	Dale, W. M.	1946
C.75	Dalitz, Richard Henry	1949-58
	C.75 1949-54	
	*C.75 1955-58	
da Providencia, J. (see C.253)		
C.76	Davison, Boris (1947 letter is Peierls's carbon only) includes correspondence with Harwell and with Chalk River and correspondence with colleagues after Davison's sudden death in 1961, obituary of Davison by W.H. Watson as published in <u>Nature</u> ; see also C.66.	1947, 1950-61
de Dominicis, C. T. (see C.83)		
C.77	Dee, Anne	1954-58
	C.77 1954	
	*C.77 1955-58	
C.78	Dee, Philip Ivor (all letters except that of 1948 are Peierls's carbons only)	1938-39, 1948-52
de Haas, W. J. (see C.126)		
C.79	Deutsch, Martin	1948-49
*C.80	Diamond, Witold B.	1965-68
di Castro, C. (see C.71)		
C.81	Dingle, Robert Balson	1950
C.82	Dirac, Paul Adrien Maurice (see also A.22)	1939, 1948-52
C.83	de Dominicis, Cyrano Tullio	1953-61
C.84-C.85	Dyson, Freeman John	1946-74
	C.84 1946-52	
	*C.85 1955-56, 1960-63, 1973-74	
C.86	Eden, Richard John	1956
	Eliezer, C. Jayam	1947-48, 1951
	Elliot, J. P.	1957
	Evans, Robley, D.	1949
C.87	Easthope, Colin E. (Peierls's first research student in Cambridge)	1936-38, 1942, 1952
C.88	Edmonds, Alan R.	1950-58
C.89-C.90	Edwards, Samuel Frederick	1952-71
	C.89 1952-54	
	*C.90 1955-71	

C.91	Ehrenberg, W.	1946, 1947
C.92	Ehrenfest, Paul (in German)	1932
	Ehrenfest had published a paper 'Some queries concerning the foundations of quantum mechanics'. The file contains a letter from Peierls giving his views as to the answers, a reply from Ehrenfest asking that some of the answers be expanded and suggesting that Peierls publish his views. A further letter from Peierls discussed the points Ehrenfest had raised. He did not publish anything on this because he found that Pauli had published a reply to Ehrenfest which largely overlapped with his own ideas. (See also A.16.)	
*C.93	Elton, Lewis Richard Benjamin	1955, 1965, 1972
*C.94	Emery, Victor J.	1960-63
*C.95	Evans, James Anthony	1957-62
C.96	Ewald, Paul Peter	1946-49, 1958
C.97	Fankuchen, Isidor (Peierls's carbon only)	1939
	Feenberg, E. (Peierls's carbon only)	1939
	Follett, David Henry	1947
	Fowler, G. N.	1952, 1964
C.98	Fairbairn, Walter M.	1950-60, 1965
	C.98	1950-54
	*C.98	1955-60, 1965
C.99	Fermi, Enrico (1936 letter is in Italian)	1936, 1948
C.100	Ferretti, Bruno	1946-54
C.101	Fierz, M. (Fierz's letters are in German)	1937, 1958-62
C.102-C.103	Flowers, Brian Hilton	1950-66, 1968
C.102	1950-54	
*C.103	1955-56, 1968	
C.104	Fock, V. (in German)	1930-31
C.105	Fowler, Ralph Howard (see also C.146)	1937-38
C.106	Franz, Walter (see also C.264)	1950
	Fremlin, John H.	1968, 1971
	French, A. P. (Peierls's carbon only)	1954
	Friedel, J.	1965
	Fulbright, H. W.	1951
C.107	Frank, Frederick Charles (1957 letter is Peierls's carbon only)	1951, 1957

C.108	Frenkel, J. (includes copy of telegram to R.H. Fowler from Frenkel - n.d.)	1946-47
C.109	Frisch, Otto Robert	1947-54, 1962
C.110	Fröhlich, Herbert (1937 letter is in German); one letter 1971 re book in honour of Fröhlich.	1937, 1947-62, 1971
C.110	1937, 1947-53	
*C.110	1955-62, 1971	
C.111	Fuchs, Klaus (1947 letters are Peierls's carbons only; 1950 correspondence is with Fuch's friends and advisers) (see also A.16 and C.66).	1947, 1950
C.112	Gallop, J. W.	1949
	Gentner, Wolfgang (in German)	1948, 1951
	George, E. P.	1951
	Gifford, R. D.	1959
C.113	Gabor, Dennis	1941-51
C.114	Gamow, George (Russian and English)	1946-47, 1952
C.115-C.116	Gardner, John William	1945-56
C.115	1945-52	
*C.116	1955-56	
C.117	Garrido, Luis Maria	1968-74
*C.118	Geoghegan, Gerald R. H.	1956-57
	Gilbert, Nicole (see Vinh-Mau, C.311)	
C.119	Glueckauf, Eugen (Peierls's carbon only)	1948
	Goldsack, Stephen J.	1951
	Gorter, C. J.	1962
	Goward, F. K.	1949, 1954
	Grossman, Shlomit	1972
C.120	Goodeve, Charles Frederick	1936
*C.121	Green, Anthony M.	1956-63, 1968
C.122	Greenwood, Derek A.	1953-58, 1962
C.123	Günther, Marian (some letters in German)	1949-50, 1952, 1959
	C.123 1949-50, 1952	
	*C.123 1959	
C.124	Gustafson, Torsten	1947, 1949-53
C.125	Gutmann, Felix	1952
C.126	de Haas, W. J.	1935
	Hall, Henry Edgar	1971
	Hamza, A. M.	1972
	Hardy, Robert J.	1967

C.127-C.128	ter Haar, Dirk	1949-55, 1963, 1967
C.127	1949-55	
*C.128	1963, 1967	
*C.129	Haering, Rudolph R.	1956-58, 1962, 1964
C.130	Halban, Hans von (see also A.18)	1947-51
C.131	Haldane, John Burdon Sanderson	1963
C.132	Hamilton, James	1954, 1956
C.133	Harper, Philip George	1949-57, 1959- 60, 1974
	C.133 1949-54	
	*C.133 1955-60, 1974	
*C.134	Harrison, Michael J.	1959-63
C.135-C.136	Hartree, Douglas Rayner (see also C.47 and C.51)	1947-57
C.135	1947-51	
C.136	1952-57	
C.137	Haslett, A. W.	1947
	Hillman, P.	1956
	Hogben, Lancelot	1946
	Houtermans, Mrs. (in German)	1934
	Howlett, Jack	1948, 1954
C.138	Heisenberg, Werner (all of Heisenberg's letters are in German)	1930, 1931 (?), 1935, 1948
<p>Some early letters in German about physics - mostly about the quantum theory of the electromagnetic field then developed by Heisenberg and Pauli. This includes two letters from Heisenberg to Pauli, which were passed to Peierls for comment.</p> <p>The file also includes correspondence in 1948 during Heisenberg's visit to England, about a visit to Birmingham which was arranged but had to be cancelled. In Peierls's letter of 11 February 1948 there is a reference to a memorandum by Peierls 'Our relations with the German scientists' which was enclosed, but there is no copy of this (see also D.12).</p> <p>See also A.21, C.234 and D.14.</p>		
C.139	Heitler, Walter Heinrich (1937 letters are in German)	1937, 1946-51
C.140	Hepner, Wolfgang A. (includes carbons of Peierls's letters Born, 1940)	1940-42, 1946- 47, 1950
*C.141	Herbut, Fedor	1959-67
C.142	Herivel, J. W. J.	1950-53

C.143	Hodgson, Peter E.	1958-59
C.144	Hofstadter, Robert	1953-55
C.145	Horton, George K.	1953, 1959
C.146	Hoyle, Fred	1936-39, 1947
<p>Hoyle started research work under Peierls shortly before Peierls moved from Cambridge to Birmingham in 1937. The record does not show whether Peierls was his official Ph.D. supervisor after the move, but he worked under Peierls's guidance, hitch-hiking to Birmingham when necessary for consultation. There is correspondence from that period, and also later in connection with a joint paper, and, in 1947, comments on a paper by C. Domb. The sequence is not complete and most of Hoyle's letters are not dated.</p> <p>See also C.105.</p>		
C.147	Hu, Ning	1947-48
	Hughes, D. J.	1954
	Humphreys, C. J.	1968
	Hund, F. (in German) (see also E.10)	1960
C.148	Huby, R.	1948-52, 1970
C.149	Huck, R. J.	1937-40
C.150	Hulthén, Lamek	1946-49
C.151	Humblet, J. (in French)	1948, 1950
C.152	Hume-Rothery, William	1938, 1942-43, 1947, 1958, 1967
*C.153	Husain, Delawar	1959-64, 1966
*C.154	Hussain, Zahur	1966, 1970-71
C.155	Jackson, J. David	1949
	Japolsky, N. S.	1962
	Jastrow, Robert	1949
	Jeffreys, Bertha	1950
	Johnson, Derek F.	1951
	Jordan, P. (in German)	1935
*C.156	Jackson, Daphne F.	1969
C.157	Jahn, Hermann Arthur	1946-53, 1956
*C.158	Jenkins, Richard C. L.	1953-59, 1964
C.159	Jonah, Daniel A.	1961, 1969-72

C.160	Jones, Harry (1955 letter is Peierls's carbon only)	1946, 1955
C.161	Jones, Reginald Victor	1948, 1955
C.162	Kahn, Herman Kapitza, Peter Leonidovich Kastler, A.	1961 1971 1974
* C.163	Kabir, Prabahan Kemal	1956-63
* C.164	Kanellopoulos, Themistoklis V. (see also B.15)	1953-56, 1959-60
C.165	Kapur, P. L.	1937-39, 1946
C.166	Kerley, Gerald I. Kerr, Alexander O. Kettle, S. F. A.	1973 1969 1965
C.167-C.168	Kemmer, Nicholas	1938-62
C.167	1938 (in German, Peierls's carbon only), 1946, 1948-54	
* C.168	1955-58, 1960-62 (much correspondence <u>re</u> Peierls's external examining for Edinburgh and Kemmer's external examining for Birmingham).	
C.169	King, D. T. Klemperer, O. Kober, H.	1950 1947 1939
C.170	Kim, Young-Nok	1953-58, 1968, 1972
C.171	Klein, Oskar	1949, 1951
C.172	Klemens, Paul G.	1949-52
C.173	Kopal, Zdeněk	1953, 1957
C.174	Kramers, H. A. (1951 letter is a copy of a letter by Kramers to the Director-General of UNESCO; other correspondence is <u>re</u> a collection of Kramers's letters and a proposed memorial volume). Krans, R. L. Krishnan, Kariamanikkam Srinivasa Kronig, R. de L.	1951-55 1966 1946, 1953 1946-47
C.175	Krook, Max	1946-54
C.176	Kuper, Charles Goethe	1955-56
C.177	Kynch, George James (see also C.266)	1949-52, 1955-57, 1974

C.178	Lamb, Willis Eugene Lejček, Lubor van Leuven, Piet	1956, n.d. 1969 1972, 1974
C.179	Landau, Lev Davydovich (in German, Russian and English) Landau was in Zürich for a short time in the autumn of 1929, and again in the winter of 1930-31. On each occasion Landau and Peierls wrote a joint paper. There is correspondence about the first of these. Some later casual correspondence concerns in part possible visits, points arising from a conference in Moscow in 1956, about translation of books, a proposed honorary degree for Landau in Birmingham. The 1968 correspondence is about Landau's death and the obituary notices in journals. See also C.30 and C.265	1930, 1950, 1955-58, 1968
C.180	Lane, Anthony Milner	1951-55
*C.181	Langer, James S.	1955-58
*C.182	Lascoux, Jean	1955-59
*C.183	Le Couteur, K. J.	1952-59
*C.184	Leon, Melvin	1961-63
*C.185	Levinger, Joseph S.	1956-61, 1971- 72
C.186	Lidiard, Alan Brian Lipkin, Harry J. Lippmann, Bernard A.	1952, 1966 1957, 1961 1966
C.187	Lieb, Elliott Hershel C.187 1953-54 *C.187 1955-62	1953-62
C.188	Lindhard, Jens	1949-50
*C.189	Ljolje, K. Lüders, G. (in German) Luscombe, J. Lyttleton, Raymond Arthur (Peierls's carbon only)	1963 1965 1974 1958
C.190	Lucas, S.	1948
C.191	McIntyre, M. E. McQuillan, Alan D.	1974 1971
C.192	MacDonald, David Keith Chalmers	1948-50, 1955, 1959-60
C.193	McLean, Thomas Pearson	1954-55

C.194	McManus, Hugh (McManus was Peierls's first research student at Birmingham University).	1939-40, 1945-56, 1960
C.195	Mandelstam, Stanley	1953-63
	C.195 1953-54	
	*C.195 1955-63	
*C.196	March, Norman Henry	1959-63
C.197	Marshak, Robert E. (includes correspondence re 60th birthday volume for Hans Bethe 1965-66).	1956-66
C.198	Marshall, Walter Charles	1952-57, 1961-63
	C.198 1952-54	
	*C.198 1955-57, 1961-63	
C.199	Martin, Paul C.	1955-60
*C.200	Mason, Ronald (Peierls's carbon only)	1974
	Mazo, Robert M.	1967
	Menzel, Donald H.	1949-50
	Meyerhof, W. E.	1947
	Mitra, Asoke N.	1960-61
	Moszkowski, Steven A.	1957
	Motz, Hans	1963
	Mummery, Peter W.	1957
C.201	Matthews, Paul Taunton	1951-57, 1962
	C.201 1951-54	
	*C.201 1955-57, 1962	
*C.202	Mehta, Naren	1961-63
C.203	Meitner, Lise (in German and English)	1939, 1948, 1955
C.204	Meksyn, D. (includes letter on his work on infinite integrals from Meksyn to R.H. Fowler, which Fowler passed to Peierls).	1936
C.205	Mendelssohn, Kurt (in German)	1936
*C.206	Mercier, Raymond P.	1968
*C.207	Mermin, N. David	1961-62, 1968
*C.208	Møller, C. (1939 correspondence in German)	1939, 1947,
	C.208 1939, 1947, 1952	1952, 1956,
	*C.208 1956, 1970	1970
*C.209	Mondragón, Alfonso B.	1957-62, 1967-68
*C.210	Moon, Philip Burton	1950, 1959, 1973-74

C.211	Moorhouse, Robert Gordon	1949-55
	C.211	1949-52
	*C.211	1953-55

C.212	Moshinsky, Marcos	1956-57
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C.213-C.218	Mott, Nevill Francis	1936-74
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C.213	1936-39 (includes typescript by Mott of 'Discussion of the paper by de Boer and Verwey' and ms. notes by Peierls on the same topic).
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C.214	1946-50 (includes copy of 15 March 1946 letter from Niels Bohr to Mott re new journal for physics; much of the correspondence in this file concerns this proposal).
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C.215	1951-53 (much of the correspondence concerns the refereeing and communication of papers for the <u>Philosophical Magazine</u> and <u>Journal of Science</u>).
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*C.216	1953-57
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*C.217	1957-61, 1963
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*C.218	1964-74 (includes correspondence re proposed summer schools for solid state research students in British universities).
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In addition to scientific correspondence, there are also many letters dealing with the affairs of the Atomic Scientists' Association. This correspondence should be read in conjunction with that found in Item F.8.

C.219	Moyal, J. E.	1950-52
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*C.220	Murphy, George Eugene	1962-63, 1973
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C.221-C.222	Nabarro, Frank Reginald Nunes	1946-73
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C.221	1946-53
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*C.222	1955-73
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*C.223	Nakano, Husio	1960-63
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C.224	Newton, Roger G.	1959-60
	Novaković, Ljubisav	1972
	Nussbaum, R. H.	1954

C.225	Noyes, Henry Pierre	1950-55, 1960-61
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*C.226	Oliphant, Mark	1973
	Oneda, S.	1957
	Owen, David	1965

C.227-C.228	Oppenheimer, J. Robert	1946-55, 1961, 1971
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C.227	1946-55, 1961 (includes correspondence re arrangements for Peierls's sabbatical term at the Institute for Advanced Study, Princeton, 1952).
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C.228	1971 (correspondence re memorial to Oppenheimer). See also Items A.19, A.22, D.9, D.18.
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C.229	Orowan, Egon (includes typescript of patent application on 'aiming device, especially for anti-aircraft artillery' 1941 and of 3 pp. draft titled 'The origin and spacing of slip bands'). See also A.18 and E.11.	1941, 1946, 1950, 1961, 1968
C.230	Pais, Abraham	1947-53
*C.231	Paneth, Heinz Rudolf (now H.R. Post)	1949-51, 1959
C.232	Papapetrou, A. Peshkin, Murray Peters, Bernard (Peierls's carbon only) Pike, E. R. Pincherle, Leo Plaskett, Harry Hemley	1951 1960 1949 1966 1946, 1948 1951
*C.233	Paton, Jack Ellis	1959-62
C.234-C.240	Pauli, Wolfgang (German and English) Peierls was Pauli's student in the summer of 1929, and assistant from October 1929 to summer of 1932. Early letters are mostly about physics during Pauli's absences from Zürich. Later, exchange of letters about physics (and occasionally about visits) continued. See also A.22, C.265, C.322, E.16.	1930-57
C.234	1930-37 (includes postcard from Heisenberg to Pauli (Feb. 1940); see also C.138).	
C.235	1938 (March-December)	
C.236	1949 (February-July)	
C.237	1952 (August, one letter - October)	
C.238	1953 (January-March)	
C.239	1955-57	
C.240	Correspondence re Peierls's obituary notice of Pauli in <u>Biographical Memoirs of Fellows of The Royal Society</u> , Vol.5, 1959 and his contribution to the <u>Pauli Memorial Volume</u> . See also D.10.	1959-60
C.241	Penney, William George C.241 1946-47, 1950, 1952 *C.241 1961	1946-47, 1950, 1952, 1961
C.242	Perks, Maurice A.	1953-55
C.243	Perrin, Michael Willcox (see also F.4-F.8)	1946-47, 1950, 1954-55
C.244	Pinl, Max (1947 letter in German)	1947, 1949
C.245	Placzek, George (1937-39 letters are in German) (includes typescript draft of Bohr-Peierls-Placzek paper). See also C.29-C.36, F.4-F.8, D.12.	1937-39, 1947- 54

C.246	Podolanski, J. Pool, M. L. Pound, R. V. Price, Peter J. Pursey, D. L.	1952 1949 1959 1951-52 1952, 1958
C.247	Polanyi, Michael (includes a carbon of Polanyi's paper 'Electric dipoles and electrically induced resonance' sent to Peierls for comment). See also F.4-F.8.	1941, 1946, 1954-56
C.248	Polkinghorne, John Charlton	1954-55
C.249	Popper, Karl Raimund (one letter only)	1959
C.250	Powell, Cecil Frank (see also A.16) C.250 1948-54 *C.250 1959, 1964, 1968	1948-54, 1959, 1964, 1968
C.251	Preston, Melvin A. C.251 1949-54 *C.251 1955-58, 1963	1946-58, 1963
C.252	Proca, Alexandre (see also C.267)	1947-48, 1950- 53, 1955
*C.253	da Providencia, J.	1962-66
C.254	Pryce, Maurice Henry Lecomney	1937-39, 1948- 55, 1961, 1963
C.255	Quimby, S. L.	1955
C.256	Radcliffe, John M. C.256 1948-54 *C.256 1955-60	1948-60
C.257	Radicati, Luigi A.	1951-55
C.258	Raman, Chandrasekhara Venkata	1951
*C.259	Ramanna, R.	1967-68
C.260	Ramsey, Norman Foster Rasetti, Franco (in German) Raven, J. M. Rohrlich, Fritz Rosenberg, Harold M. Ross, Alan Strode Campbell	1951, 1955 1935 1957 1952 1954 n.d.
C.261	Ravenhall, David Geoffrey	1947-62
C.262	Rayski, Jerzy	1951, 1953-54
C.263	Redmond, Peter J.	1952-54, 1958- 59

C.264-C.265	Rosbaud, Paul	1947-60
C.264	1947-51	
C.265	1953-60	
	(includes much editorial correspondence when Rosbaud was associated with various publishing firms).	
C.266-C.267	Rosenfeld, Léon	1938-71
C.266	1938 (in German), 1946-51, 1953-54	
C.267	1955-57, 1960, 1962-63, 1971	
	(includes editorial correspondence when Rosenfeld was an editor of <u>Nuclear Physics</u>). See also D.18.	
C.268	Rosenhead, Louis	1947-63
	C.268 1947-54	
	*C.268 1956-63	
C.269	Rotblat, Joseph (see also F.4-F.8)	1946-48, 1950,
	C.269 1946-48, 1950, 1953-54	1953-57,
	*C.269 1955-57, 1959, 1961	1959, 1961
C.270	Rzewuski, Jan Feliks	1948-53
C.271	Saha, M. N.	1951
	Salem, Lionel	1961
	Schafroth, M. R.	1954
	Schonland, Basil Ferdinand Jamieson	1956
	Secord, Campbell	1948
C.272-C.273	Salam, Abdus	1950-63
C.272	1950, 1954	
*C.273	1955-63 (see also C.189)	
C.274	Salpeter, Edwin Ernest	1946-53, 1958-59, 1973
C.275	Schaefer, Glen W.	1953-55
C.276	Schonland, David	1948-55
*C.277	Schultz, Theodore David	1955-60
C.278	Serber, Robert	1948, 1950, 1960, 1964
*C.279	Sharma, Chandra Shekhar	1968-69
C.280	Shoenberg, David	1937-39, 1948-50, 1953, 1959

C.281-C.282	Simon, Francis Eugene	1937-55
C.281	1937 (in German), 1945-50	
C.282	1951-55	
	(includes report by Simon for Government Information Service on 'The constructive use of atomic energy' and of 'In retrospect', his reflections on contemporary life as pictured in the popular press). See also A.17.	
C.283	Singwi, K. S.	1950-54
C.284-C.285	Skinner, Herbert W. B. (see also C.53, F.4-F.8)	1948-60
C.284	1948-54	
*C.285	1956-60	
C.286-C.287	Skyrme, Tony H. R.	1945-57
C.286	1945-54	
*C.287	1955-57	
	(includes typescripts of several papers).	
*C.288	Seligman, Henry	1962
	Smend, F.	1973
	Smith, S. S.	1958
	Stell, George	1970
C.289	Sneddon, Ian Naismith	1948, 1950-56, 1958
C.290	Sommerfeld, Arnold (one letter only, in German)	1934
	Covering letter sent with copy of Sommerfeld's letter to Raman in India about a chair in Bangalore for which Peierls was applying. The letter (now apparently lost) mentioned Peierls together with Hopf, another applicant, and assured Raman that Hopf was the more suitable and deserving of the two. (See also E.27.)	
*C.291	Spalding, E. G.	1961
*C.292	Sprung, Donald W. L.	1960-64
*C.293	Stinchcombe, Robin B.	1962-63
*C.294	Stuchlik, Karl (in German and English)	1966
C.295	Swiatecki, Wladyslaw Jerzy (see also C.51, C.299)	1946-56
C.296	Szilard, Leo (one letter only)	1958

C.297	Tait, J. H.	1965
	Takeo, Makoto	1967
	Taylor, John A.	1960
	Titterton, Ernest William	1947
	Trummer, Horst (in German)	1960
Tadić, D. (see C.306)		
*C.298	Tanner, Neil, W.	1968-69
C.299	Taylor, Geoffrey Ingram (1944-51 are Peierls's carbons only)	1937, 1944-51, 1952, 1959, 1966
C.300	Teller, Edward	1947-49, 1956
*C.301	Temperley, Hugh N. V.	1956, 1961, 1965
ter Haar, D. (see C.127-C.128)		
*C.302	Thellung, A. E.	1962-63
*C.303	Thompson, Brian Victor	1959-64
C.304	Thomson, George Paget (includes draft of paper on deuterons, 1946)	1946-47, 1950-51, 1959
*C.305	Thouless, David J.	1961-66, 1974
*C.306	Tuan, Tai-Fu and Tadić, D.	1960-66, 1968
C.307	Uhlenbeck, George E.	1948
	Umézu, H.	1954
	Urey, Harold Clayton	1965
*C.308	Valatin, J. G.	1964-69
van Leuven, D. (see C.178)		
van Wieringen, J. S. (see C.326)		
C.309	Van Vleck, John Hasbrouck	1956
	Vogt, Erich W.	1955-56, 1963, 1969
	Volkoff, G. M.	1953
C.310	Villars, Felix M. H.	1956, 1965
*C.311	Vinh-Mau, Nicole (née Gilbert) (in French and English)	1959-62
C.312	von Neumann, John (Peierls's carbons only) (in German and English)	1933, 1950

von Weizsäcker, C.F. (see C.323)

C.313	Walkinshaw, W. Wassermann, G. D. Wentzel, Gregor Wheeler, John A.	1950-51 1950-51 1953 1952, 1957
C.314	Walke, Harold J.	1938
C.315	Waller, Ivar	1948-54
C.316	Wataghin, Gleb (includes copy of letter from Pauli to Wataghin)	1949, 1953
C.317	Watson, George Neville (see also D.18)	1937, 1961
C.318	Watson, W. H.	1948, 1951
C.319	Weigle, Jean (2 letters)	1935
C.320-C.321	Weiss, Joseph J.	1939-69
C.320	1939-40 (in German), 1941, 1946-47, 1949-51, 1954	
C.321	1955-57, 1959-63, 1969	
C.322	Weisskopf, Victor Frederick (see also A.20 and C.330) C.322 1947-54 *C.322 1955-59, 1965	1947-59, 1965
C.323	Weizsäcker, Carl-Friedrich (1 letter, in German)	1934
C.324	Whittaker, Edmond	1948
C.325	Wick, Gian Carlo (1937-38 in German)	1937-38, 1945- 46, 1949-51, 1963
C.326	Wieringen, J. S. van	1948-53, 1959
C.327	Wigner, Eugene Paul (1932-38 in German) (Peierls's carbons only)	1932-38, 1953, 1963, 1970
C.328	Wilkes, Maurice Vincent	1953-54
*C.329	Wilkin, Colin	1960-65
C.330	Wilkinson, Denys Haigh	1950, 1959-61, 1965-66, 1970
C.331	Wilkinson, K. J. R.	1949, 1955, 1960
C.332	Wilson, Alan Herries	1954-56
C.333	Wilson, Robert R.	1947, 1949-50, 1954

C.334	Wimperis, Harry Egerton Wong, Chun Wa Woolley, R. G.	1954 1967 1972
*C.335	Wong, Maurice K. F.	1962, 1964-65
C.336	Wood, A. Michael	1939-43, 1947
C.337	Wu, Ta-You	1958
C.338	van Wyk, Christoffel Benjamin	1948-49, 1952-55
*C.339	Yang, Chen Ning (Frank)	1965, 1970
C.340	Yellin, Joel	1966
*C.341	Yoccoz, Jean	1960-61
C.342	Yoshida, Shiro	1954
*C.343	Yourgrau, Wolfgang	1956-58
*C.344	Zak, Joshua	1972-73
C.345	Zienau, S.	1955, 1958
C.346	Ziman, John Michael	1954-55
*C.347	Reports on manuscripts, etc. submitted to Peierls for advice and opinion by scientific colleagues and editors.	1946-73
C.348	Shorter scientific correspondence: requests for information, permission to quote, etc. received and made by Peierls and colleagues, exchange of reports and articles. Not indexed.	c.1950-74
*C.349-C.350	Shorter personal correspondence with individuals re careers, appointments, research problems. Presented alphabetically:	
*C.349	A - K	
*C.350	M - W	
C.351-C.358	Manuscripts, theories and correspondence on miscellaneous scientific topics submitted to Peierls by amateurs and members of the public in UK and abroad; notable for the careful attention and kindness of his replies. Presented alphabetically. Not indexed.	
C.351	B - D	
C.352	E - F	

C.353	G
C.354	H - L
C.355	Mc
C.356	M - N
C.357	P - T
C.358	W

C.359 'Nonsense': miscellaneous manuscripts and publications sent to Peierls by members of the public. Unanswered or with formal reply only.

D. PUBLICATIONS, BROADCASTS, REPORTS (D.1-D.25)

D.1-D.21 Correspondence with publishers and editors re books, articles, reviews by Peierls, or submitted to him for comment. The correspondence is presented alphabetically by name of publisher or publication, and a note is given of any material of particular scientific or personal interest. The index is selective.

D.1-D.3 George Allen and Unwin
Misc. correspondence re Peierls's The Laws of Nature (first published 1955), translations and foreign rights; includes press-cuttings and reviews:

3 folders:	D.1	1954-58
	D.2	1958-61
	D.3	1964-70

D.4 Annals of Physics 1956-74
Peierls served on the Editorial Council from the foundation of the journal 1956-1972.

D.5 Athlone Press 1963
Atom Industry 1958
W.A. Benjamin & Co. 1961-63
Bulletin of the Atomic Scientists 1969-70
Butterworth Scientific Publications 1948-49

D.6 Proceedings of the Cambridge Philosophical Society 1946-56
Cambridge University Press 1958-72
Canadian Journal of Physics 1969-74
Casement Books 1953
Chatto and Windus 1971

- D.7 The Clarendon Press, Oxford: Editorial correspondence 1953-70
re Quantum Theory of Solids (published in 1955)
which arose out of a series of lectures delivered by
Peierls in 1953 at the Summer School at Les Houches;
includes correspondence on foreign translations,
second and paperback editions, and on other publica-
tions recommended or discussed by Peierls; some
scientific correspondence arising. One early letter
(1938) deals with a proposed book on the Quantum
Theory which was never completed. 1938
- D.8 Comments on Nuclear and Particle Physics. 1966-68
Peierls was invited to serve as a contributor from
the inception of the journal in 1966, and also on
the Advisory Board.
- D.9 Contemporary Physics 1959-64
Daily Express Book Division 1958
The Daily Herald Ltd. 1956-57
(includes ms. of article 'Power from atoms' written
by Peierls for supplement on Calder Hall, but not
published).
- Dictionary of Scientific Biography (see also A.19) 1971-72
Discovery 1964
Elsevier Publishing Co. Ltd. 1966
Encyclopaedia Britannica 1969, 1971
Endeavour 1963-66
(re Peierls's article Atomic energy - threat and
promise (offprint enclosed), April 1947, and
Nuclear matter, 1963).
- D.10 The Financial Times 1957
(includes ms. of article by Peierls on 'Russian
Science', prepared for Financial Times but not
published).
- History of Science 1963-65
(includes Peierls's review of The Concept of the
Positron by N.R. Hanson).
- Interscience Monographs and Texts in Physics and
Astronomy 1958-62
(Peierls served on the Advisory Board from 1958).
- McGraw-Hill Book Co. Inc. 1958-67
(includes autobiographical note by Peierls for
McGraw-Hill Modern Men of Science).

- D.11 The M.I.T. Press (Massachusetts Institute of Technology) 1961, 1964
(includes ms. of talk given by Peierls at M.I.T. Centennial, 1961, on the history and future of physics).
Mathematical Reviews 1958, 1966
- D.12, D.13 Nature
Correspondence on articles and notes submitted by Peierls for publication, or to him for comment; also on obituaries and tributes to colleagues (includes ms. drafts or copies of several of Peierls's contributions). 2 files: D.12 1943-54
*D.13 1955-74
- D.14 Thomas Nelson & Sons 1970
New Scientist 1958, 1964, 1969-71
(includes Peierls's review of The Born-Einstein letters and typescript of article 'Disarmament - Utopia or Commonsense?').
The New York Review of Books 1970-71
(includes ms. of Peierls's review of Physics and Beyond, by Werner Heisenberg, and correspondence arising).
North-Holland Publishing Company 1958-59, 1968
Nucleonics 1955
- *D.15 Il Nuovo Cimento 1954-72
(Peierls served on the Editorial Committee 1963-74).
- D.16 Oliver and Boyd Ltd. 1962-63
Pergamon Press 1955-63, 1967, 1972
Misc. correspondence re:
Journal of Nuclear Energy (Peierls served on Advisory Board)
Progress in Nuclear Energy (" " " " ")
Atomnaia Energiia (Peierls advised on translators)
Journal of the Physics and Chemistry of Solids
Pergamon Institute
and misc. requests to Peierls for advice on publications, translations, etc.

D.17	Physical Review	1947, 1950
	Physics Today	1973-74
	Science	1957
	Science Abstracts	1958
	Science Journal	1968, 1969
	Science Progress	1964, 1965
	Scientific American	1965-66
	(includes review by Peierls of <u>The Conceptual Development of Quantum Mechanics</u> by M. Jammer).	
	Society for Cultural Relations with the USSR	1966
	Soviet Physics	1956, 1965-66
	(Peierls provided translations of texts from the Russian journals <u>Uspekhi Fizicheskikh Nauk</u> and the 'Journal of Experimental and Theoretical Physics').	
D.18	The Spectator	1961
	Springer-Verlag	1955
	Time-Life International	1956
	The Times	1966-74
	(includes misc. obituary notices by Peierls of Oppenheimer, Born, Rosenfeld among others).	
	The Times Literary Supplement	1969-70
	(includes review of <u>Lawrence and Oppenheimer</u>).	
	The Twentieth Century	1955
	(includes ms. of article 'Current Problems in High Energy Physics').	
	University of Birmingham	1965
D.19	(includes ms. of obituary notice on G.N. Watson).	
	Van Nostrand Company Ltd.	1957, 1961
D.20	Misc. shorter correspondence with publishers and editors	
	re permission to quote or reprint, complimentary copies of publications sent to Peierls, etc. (Not indexed.)	
D.21	Misc. invitations to Peierls from publishers and colleagues,	
	to write books/articles, reviews, contributions to symposia, to serve on editorial boards, etc. (Selectively indexed.)	
D.22	Misc. book reviews.	

D.22

Broadcasting and television 1962-73

Misc. correspondence re interviews, recordings, television appearances for radio and television companies in UK and abroad.

The topics covered include the history of atomic physics, atomic warfare, the Fuchs case, recollections of scientific colleagues.

Programmes referred to include:

'The Bomb' (BBC Radio)	1962
Series on Quantum Physics (BBC. TV)	1963
'The Decision to drop the atomic bomb' (NBC)	1964
'The Birth of the Bomb' (Sveriges Radio)	1965
Ethical responsibility of scientists (BBC. TV)	1964
'The Struggle for Peace' (ABC. TV)	1966
On Klaus Fuchs (Radiotelevisione Italiana)	1966
<u>Re</u> programme on Rutherford (BBC Radio)	1966
'Growing Points in Physics' (BBC Radio) (includes script of Peierls's contribution 'The concepts of physics')	1966-67
On the history of the atomic bomb (Sveriges radio)	1967-68
On current research (C.O.I. for West German radio)	1969
'Birth of the Bomb' (for American TV)	1970
'A fable in his lifetime - Paul Dirac' (BBC Radio)	1972
On Klaus Fuchs (Canadian Broadcasting Corporation)	1973

D.23

'The Building of the Bomb' (BBC. TV)

1964-66, 1975

Peierls recorded an interview for the producer (Robert Reid) of this programme, which was screened in March 1965. Although the interview was not used in the programme, Peierls was disturbed by inaccuracies and distortions in the final version, and took up the matter with the producer, the then Director-General of the BBC, Sir Hugh Carleton Greene, and with several of his own scientific colleagues in USA. Extensive correspondence, script of the programme. (See also C.19.)

When the programme was screened for a second time, unchanged, in August 1975, Peierls wrote to the Chairman, Sir Michael Swann, and initiated correspondence in The Times.

- D.24 Misc. reports by Peierls and his colleagues, returned from the Atomic Energy Research Establishment, Harwell, after declassification in 1957 and 1958. N.B. Ms. 7 (see letter of 26 February 1958) is missing.
- D.25 Misc. referee's reports by Peierls on books and articles. 1951-74

E. CONFERENCES, LECTURES, VISITS, APPOINTMENTS (E.1-E.35)

(Most of the correspondence and papers in this section are post-1962.)

- E.1-E.21 Correspondence regarding appointments, conferences, major lectures, symposia, visits to universities/institutes/laboratories attended or accepted by Peierls. The papers are presented in date order and the contents briefly summarised. An indication has been given in the handlist when the file includes a typescript or abstract of Peierls's contribution. The correspondents are selectively indexed.
- See also C.117, one file of correspondence with Professor L. Gorridio; most of the letters deal with the planning and organisation of annual international schools in physics.
- E.1 Addresses to the American Physical Society, New York: 1946
September 1946 (includes abstract of talk 'Electrodynamics without point singularities', but Peierls was unable to attend the conference); January 1952 (on 'Non-local field theory'). 1952
- Home Universities Conference, London, December: file 1954
includes a summary of points included in Peierls's talk on 'The Supply of Teachers for Mathematics and Science' (see also Item B.10).
- Invitation and related papers to join Commission on High Energy Physics. 1957
- E.2 XI International Conference on High Energy Physics, Geneva, 1961-62
July 4-11, 1962 (Peierls was a member of the European Advisory Committee which was to recommend to CERN a list of people to be invited).
- Correspondence with officials of CERN re meetings of Advisory Committee, scheduling of and arrangements for conferences, scheduling of a lecture by Peierls to colloquium at CERN (on 'Nuclear translation and rotation as collective phenomena'), lists of British participants.
- Extensive correspondence with British colleagues regarding nominations to the conference, travel grants.
- Peierls's notes re instrumentation conference.

- E.3 Conference on 'High Energy Physics and Nuclear Structure', 1963
 CERN, February 25-March 2, 1963: correspondence with
 officials at CERN re arrangements for conference, trans-
 script (11 pp.) of Peierls's remarks and summary at the
 conclusion of the conference.
- International Spring School of Physics, Ravello, Italy, 1963
 April-May 4, 1963: correspondence re scheduling of
 Peierls's visit, applications from other members of the
 Birmingham department.
- Conference of mathematicians and physicists on 'The theory 1963
 and applications of analysis in function space', M.I.T.,
 June 1963: correspondence, transcript (6 pp.) of Peierls's
 concluding remarks 'A Physicist Sums Up'. Invitation to
 Peierls to serve on organizing committee of the next
 conference (declined).
- E.4 First Yugoslav Summer School on Solid State Physics, 1962-64
 Hercegnovi, September 1-14, 1963: correspondence re
 arrangements to visit summer school and other institutes,
 travel plans, list of participants, programme, 4pp. abstract
 of lecture course given by Peierls on 'The concept of
 relaxation time' (5 lectures). Invitation to 1964 summer
 school (declined).
- E.5 Correspondence re visit to Hamburg, September 1963, to 1963
 receive the Max Planck Medal (see also A.9).
- Conference on 'The Identity of the Jewish Intellectual', 1963
 London, November 1963: correspondence, list of
 participants, transcript of Peierls's remarks.
- Correspondence re visit to various laboratories and institutes 1963-64
 in France, April 1964 (see also Item F.12, Institut des
 Hautes Etudes Scientifiques).
- Conference on Many-body Problems, Manchester, September 1964
 1964 (Peierls gave the introductory talk): correspondence,
 programme.
- E.6 International Conference on Nuclear Physics, Paris, July 1964-65
 2-8, 1964: correspondence, programme, typescript of
 Peierls's concluding remarks for publication in conference
 proceedings.
- E.7 XII International High Energy Conference, Dubna, August 1963-66
 1964.
- Copies of correspondence exchanged between T.G.
 Pickavance and heads of physics departments in British
 universities re nominations to the conference. (Cont'd.)

Correspondence re travel arrangements and grants.

(The file also includes some correspondence re nominations for the 1966 High Energy Conference in Berkeley.)

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|------|---|---------|
| E.8 | Banff Summer School on Quantum Transport Theory, August 22-September 3, 1965, Alberta, Canada: correspondence <u>re</u> topics of lectures, list of participants, invitations to visit other Canadian universities, programme, travel arrangements, scheduling of school. | 1964-65 |
| E.9 | Visit to Yugoslavia, March 24-April 6, 1965: invitations to visit various institutes and laboratories, scheduling, travel arrangements. | 1965 |
| | Symposium on 'How to teach the art of approximation', Imperial College, London, May 1965: correspondence, summary of proceedings. | 1965 |
| | Visit to M.I.T., September 13-19, 1965: correspondence <u>re</u> arrangements for one-week visit (including original invitation extended in 1964 to Peierls to come as Visiting Professor for 1965-66). | 1965 |
| | International Conference on Elementary Particles, Oxford, 19-25 September 1965: correspondence <u>re</u> nominations for invitations. | 1965 |
| E.10 | Visit to Göttingen, February 1966, to address symposium in honour of F. Hund: correspondence (see also C.147). | 1966 |
| | Visiting Senior Physicist, Brookhaven National Laboratory, March-April 1966: correspondence <u>re</u> timing of visit, Peierls's correspondence with Oxford department during his absence, invitations from other institutions and laboratories in the US. | 1966 |
| | Xth International Conference on Low Temperature Physics, Moscow, 1966. (Peierls originally accepted the invitation but later had to decline owing to ill health.) | 1966 |
| E.11 | Invitations extended to Peierls during his sabbatical leave at the University of Washington in Seattle, January-June 1967, with related correspondence <u>re</u> scheduling of his visits to other institutes, etc. File includes typescript of 'History of the "Peierls-Nabarro" Force', prepared for Battelle Colloquium on Dislocation Dynamics, May 1967. | 1967 |
| E.12 | Conference on Theoretical Physics, University of Birmingham, July 4-6, 1967 'For R.E. Peierls's 60th Birthday': programme, list of members, correspondence <u>re</u> arrangements for conference, accommodation, publication of proceedings. | 1966-68 |

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| E.13 | International Theoretical Physics Conference on Particles and Fields, Rochester, N.Y., August 28-September 1, 1967: invitation and programme, correspondence <u>re</u> travel grant, participants, invitation and subsequent correspondence <u>re</u> visit to Stony Brook, N.Y. during week before conference. | 1966-67 |
| E.14 | <p>Visit to M.I.T. for opening of new physics center, March 1968 (Peierls served as Chairman at one of the sessions).</p> <p>Symposium 'On the Use of Nimrod for Nuclear Structure Physics', Rutherford Laboratory, March 1968: correspondence, provisional programme (Peierls was to give an introductory talk and chair the final session but was unable to attend).</p> <p>Gordon Conference on Nuclear Structure, July 1968: correspondence <u>re</u> preliminary planning of conference.</p> <p>Conference of the European Physical Society, Florence, April 1969: correspondence <u>re</u> travel arrangements.</p> <p>III International Conference on High Energy Physics and Nuclear Structure, New York, September 8-12, 1969: correspondence <u>re</u> planning and financing of conference (Peierls was a member of the Advisory Committee and chaired the final session).</p> | <p>1968</p> <p>1968</p> <p>1968</p> <p>1969</p> <p>1969</p> |
| E.15 | International Conference on the Three-Body Problem in Nuclear and Particle Physics, Birmingham, July 8-10, 1969. Peierls served as Co-Chairman of the Organising Committee and gave the closing summary: extensive correspondence <u>re</u> title, organisation and composition of conference; copies of letters of invitation to principal speakers and of their replies; provisional and final programme; correspondence <u>re</u> publication of proceedings and contract; Peierls's ms. notes on papers presented. | 1968-70 |
| E.16 | <p>Pauli Memorial Lectures, Zürich, January 1970: invitation to give lectures, and related correspondence, Peierls's notes for his lectures, travel arrangements. Peierls retains the tapes of these 4 lectures (see note on p. 1).</p> <p>Nuclear Physics Conference, University of Surrey, April 1970; correspondence, etc.</p> | <p>1969-70</p> <p>1970</p> |
| E.17 | Surface Science Summer Institute, Battelle Memorial Institute, Seattle, Washington: correspondence <u>re</u> plans for summer school and list of participants, scientific correspondence arising. | 1969-70 |

- E.18 Silver Jubilee of the Tata Institute of Fundamental Research, 1970
Bombay, April 1970: invitation and subsequent correspondence re topics for lectures, travel arrangements.
- Argonne National Laboratory, Illinois (25th Anniversary), 1971
November 1971, lecture on 'The state of physics': correspondence re arrangements for visit.
- E.19 Solid State Institute, Technion, Haifa, Israel, December 1971-72
1971: invitations to Peierls to come as Visiting Professor, to deliver the Wunsch Lecture, to give colloquium at the Hebrew University and subsequent correspondence re scheduling of visit. File includes a typescript of Peierls's Wunsch Lecture 'Is there a crisis in science?'.
- E.20 Symposium on 'Development of the Physicist's Conception 1971-72
of Nature', Trieste, September 18-25, 1972 (Peierls served on the sponsoring committee): draft programme with Peierls's comments and suggestions, correspondence re Peierls's lecture. (Symposium was dedicated to Dirac on his 70th birthday.)
- E.21 Address to the Royal Society of Edinburgh, March 5 1973, 1971-73
'The role of the "observer" in quantum physics - an implication for the relation of physics to biology?': invitation plus related correspondence.
- Lecture at CERN, March 28-April 4, 1973 'Some old 1972-73
fundamental problems of physics': invitation and related correspondence, abstracts of lectures (4), travel and accommodation arrangements, programme.
- Centenary Conference, Physical Society, Jersey, April 1974
1974: correspondence.
- Visit to Laboratório de Física de Universidade, Coimbra, 1973-74
Portugal, December 1973-January 1974: correspondence re scheduling of visit.
- E.22-E.29 Declined invitations (and related correspondence) to visit/join
other universities or laboratories, to give major lectures, to attend symposia and conferences. 8 folders in date order, brief indication of contents given below. Correspondents are selectively indexed.

Declined Invitations

E.22 (1948-59)

Netherlands Physical Society Symposium, Amsterdam	1948
US Department of Commerce, Conference, California	1949
Carnegie Institute of Technology, Pittsburg, Chair in Theoretical Physics and Visiting Professorship	1950-52
Summer Session, University of Wisconsin	1951
Summer Session, Stanford University, Visiting Professor	1952, 1953, 1955
Trinity Term, University of Sydney	1954-55
Symposium in memory of Einstein, Technion, Israel	1956
Physical Society Symposium, London	1959

E.23 (1960-63)

Visiting Scientists Program in Physics, USA (4 offers)	1960-64
Institute for Theoretical Physics, Zürich (visit)	1961
Department of Physics, Centro de Investigación y de Estudios Avanzados, Mexico City, Head of Physics Department	1961
Polytechnic Institute of Brooklyn, New York (visit)	1961
Summer School, University of Colorado	1962
Latin American School of Physics, Rio de Janeiro	1963
Summer Session, University of California at Los Angeles	1963
Conference on Lattice Dynamics, Copenhagen	1963

E.24 (1964)

Nuclear Physics Conference, Canberra	1964
Semester at IBM, New York	1964
Institute of Mathematical Sciences Symposium, Madras	1964
Nordic-Dutch accelerator symposium, Finland	1964
Galileo Conference, Bologna	1964
Labour Standing Conference on the Sciences, Oxford	1964
Symposium on Relativistic Astrophysics, University of Texas	1964

E.25 (1965-66)

Theoretical Physics Department, Bordeaux (visit)	1965
Conference, University of Toronto	1965
Department of Applied Mathematics, Giza, UAR, Visiting Professor	1965
Gordon Conference on Nuclear Structure and Models, New Hampshire, USA	1965
International Conference on Nuclear Physics, Gatlinburg, Tennessee	1966
Conference on Isobaric Spin, Florida State University	1966
Course on Theoretical Nuclear Physics, Trieste	1966
Summer School, Italian National Research Council, Perugia	1966
Symposium on Physical Methods in Structural Chemistry, Oxford	1966

Declined Invitations (cont'd.)

E.26 (1967)

Conference on High Energy Physics and Nuclear Structure, Israel	1967
Visiting Professorship, University of Islamabad, West Pakistan	1967
Symposium, Centenary of M. Curie, Warsaw and Paris	1967
Gordon Conference on Nuclear Structure, New Hampshire, USA	1967
Nucleon-Nucleon Conference, University of Florida	1967
Summer School, University of Athens	1967
Institute of Theoretical Physics, University of Lund, Sweden	1967
25th Anniversary observance, 1st Nuclear Chain Reaction, Chicago	1967

(see also Item E.11, a file of invitations received by Peierls during his sabbatical in Seattle, January-June 1967).

E.27 (1968-70)

Sommerfeld Memorial Meeting, Munich	1968
Cultural Congress of Havana	1968
Symposium on Contemporary Physics, Trieste	1968
Summer School, Institute of Nuclear Physics, Cracow, Poland	1968
McMaster University, Ontario (visit)	1969
Universities of Vienna and Graz, Austria (visit)	1969
Dalhousie University, Halifax (visit)	1970
Summer School and National Congress, Yugoslavia	1970
Symposium on Thin Helium Films, Stevens Institute of Technology, Hoboken, N. Jersey	1970
Symposium on Particle Theory, University of Texas	1970

E.28 (1970-73)

Symposium on water pollution, Aberystwyth	1970
Los Alamos Medium Energy Physics Faculty, Study group	1971
Symposium, Quantum Theory Project, Florida	1971
Symposium on Impact of Science on Society, The European Committee of the Weizmann Institute, Brussels	1971
Statistical Mechanics Conference, Technion, Israel	1971
Conference on Few Particle Problems, Los Angeles	1972
Symposium on the Centenary of the Boltzmann-Equation, Vienna	1972
Summer School, Institute for Nuclear Research, Warsaw, Poland	1972
Symposium, Quantum Theory Project, Florida	1973
Symposium on Correlation, Budapest	1973

Declined Invitations (cont'd.)

E.29 (1973-74)

Department of Physics, University of Virginia (visit)	1973
Symposium, Stevens Institute of Technology, Hoboken, New Jersey	1973
Solid State Conference, Manchester	1974
Conference on low temperature diffusion, IBM, New York	1974
Conference, University of Puerto Rico	1974
Conference on Functional Integration, London	1974

E.30-E.31 Minor correspondence re symposia, meetings, conferences and visits (in date order). Includes correspondence re declassification conferences in the US, 1949, 1951; proposed Emergency Committee of Atomic Scientists. Misc. announcements, invitations, programmes, letters of thanks. Correspondence re scheduling, publicity, finances, nominations, publications.

E.30 1946-66

E.31 1966-74

E.32-E.33 Correspondence re departmental/university lectures, symposia and colloquia given by Peierls in institutions or universities other than his own. The papers are presented in date order with an indication of title, venue and date. The correspondents are selectively indexed.

E.32 (1950-51, 1964-65)

'The Commutation Laws of Relativistic Quantum Theory', Oxford, November 1950.	1950
'Problems in the Theory of Nuclear Forces', University College, London, May 1951.	1951
'Nuclear Forces', Southampton, May 1951.	1951
'The atom, the nucleus and beyond', Birmingham, February 1964.	1964
'Disarmament', College of Aeronautics, Cranfield, November 1964.	1964
'Iteration Methods' and 'Decaying states in Quantum Mechanics', Trinity College, Dublin, May 1965 (includes some correspondence on university and scientific matters).	1965
'Realistic forces and finite nuclei', Queen Mary College, London, November 1965 (programme only).	1965

E.33 (1966-74)

'Problems of Disarmament', Oxford, November 1966. 1966
(no title), Birmingham, December 1966. 1966
Seminar to Theoretical Physics Division, Harwell, 1967
November 1967.
Address to the Physical Society, Sussex, March 1968. 1968
Discussion of the film 'The War Game', Oxford Scout and 1970
Guide Group Rally, October 1970.
Theoretical Physics seminar, Birmingham, March 1971. 1971
'The scientist and the misuse of science', Oxford, May 1971. 1971
'The need for nuclear models', University of Aston, 1972
February 1972.
'Pre-war, wartime and post-war physics', Oxford, 1973
October 1973.
'The scientist and the misuse of science', Canterbury, 1973
November 1973.
'Perturbation theory for projected states', Sussex, March 1974. 1974
'The origin of the difference between past and future in 1974
physics', Reading, March 1974.

E.34-E.35 Invitations to give departmental/university lectures, seminars
or colloquia which were declined by Peierls. 2 folders in
date order:

E.34 1963-68

E.35 1969-74

F. COMMITTEES, SOCIETIES, CONSULTANCIES (F.1-F.50)

The papers are presented alphabetically as far as possible, with
an indication of the dates and topics covered. The index
is selective.

N.B. Items marked with an asterisk (*) are restricted
until 1 January 2000.

*F.1

Advisory Panel on Arms Control and Disarmament

1964-74

The Panel was set up by Lord Chalfont (then Minister of
State, Foreign Office) who invited Peierls to join it;
the Panel was subsequently under the responsibility of
Mr. Fred Mulley, Lord Lothian, Mr. A. Godber,
Mr. Julian Amery and Mr. David Ennals. A list of the
contents is on the file.

- *F.2 Atlas Computer Committee 1968-72
- Correspondence re scheduling of meetings, matters of policy, minutes and related correspondence. Peierls served as Chairman from 1 October 1969-30 June 1972. (See also SRC Science Board file, Item F.41.)
- F.3 Atomic Energy Research Establishment, Harwell 1951, 1957, 1963-65
- Correspondence re Peierls's consultancy work for the authority 1951, 1957, 1963-65, and some correspondence re meetings at Risley and Windscale 1954.
- F.4-F.8 Atomic Scientists Association 1946-57
- Peierls was a member of the Provisional Committee of the Association from its foundation in May 1946 and took an active part in its affairs. He served as President 1948-50 in succession to Nevill Mott. The contents of the files include:
- The affairs of the Association, selection of officers, policy statement, meetings, speakers, conferences, finance, letters to the Press; includes draft of Peierls's 'President's Report' for 1949-50.
- The aims of the Association: civil defence, problems of atomic energy, public awareness and information, national and international security problems, the Atomic Energy Bill, the 'Atomic Train' exhibition, etc.
- The Atomic Scientists' News: correspondence with editors, drafts of articles and letters for publication.
- The Atomic Energy Study Group: memos, drafts and papers on various topics (some by Peierls).
- Misc. drafts for articles, letters, reports etc. by Peierls.
- NB The correspondence is not always complete; sometimes only carbons of Peierls's letters survive. See also C.22-C.23, C.54.
- Peierls was in particularly close and frequent touch with Nevill Mott in connection with ASA; this correspondence has been kept as a separate file, F.8. Mott was the first President of ASA 1946-48, and again in 1950.
- F.4 May 1946-1947
- F.5 1948
- F.6 1949-50
- F.7 1951-57
- F.8 Correspondence with Nevill Mott, April 1946-August 1951. (See also C.213-C.218.)

- F.9 British Association 1947-50, 1956-59
Correspondence re lectures, publication of talks, invitation to join executive committee of West Midlands Area (declined).
- CERN See F.50
- F.10-F.11 The English Electric Company Limited 1954-69
Peierls acted as Consultant to the firm 1954-67. Correspondence re visits, personnel, technical advice, papers for publication, scientific research in progress.
2 folders:
- F.10 1954-57
- *F.11 1958-69
- *F.12-F.15 Institut des Hautes Etudes Scientifiques
Peierls served on Comité Scientifique until 1974. Administrative and scientific correspondence, visits, policy and organisation of Institut, etc. 4 folders:
- *F.12 1963-71 (includes correspondence 1958 with Léon Motchane describing setting up of Institut).
- *F.13 1972
- *F.14 1973-74
- *F.15 Misc. duplicated reports, committee papers, etc.
- F.16-F.19 The Institute of Physics and the Physical Society. 4 folders: 1946-74
- *F.16 Awards Committee, 1963-71 (Peierls served on this committee 1963-68)
- *F.17 Misc. reports and comments on papers submitted to Peierls for reference, and by him for publication. Includes related scientific correspondence 1962-74.
- F.18 'Report on the University Training in Mathematics for the Future Physicist'. Peierls organised and prepared this report, which was sponsored by the Royal Society's British National Committee for Mathematics with the assistance of the Institute of Physics and the Physical Society. File includes correspondence re preparation of questionnaire, drafting of report, amendments suggested by committee members, publication of report; copy of questionnaire, list of people who received questionnaire, copy of report (see also Royal Society, F.39). 1965-66
- F.19 Misc. correspondence with officials of Institute re papers for publication, invitations to contribute reviews, articles, etc. 1946-74 (Peierls was invited to serve on the Editorial Board of Journal of Physics 'A' in 1974 but declined).

- F.20 National Institute for Research in Nuclear Science 1957-63
(Chairman: Lord Bridges). Peierls served on the Board 1957-62. Letters of appointment to Governing Board, letters by Peierls to Chancellor of Exchequer protesting against financial cuts to universities. (See also University Policy, B.15.)
- F.21 New Commonwealth Atomic Energy Committee 1947
Misc. correspondence with organisers and officials, mainly re international control of atomic energy.
- F.21A Marconi Instruments Limited 1967-68
Short correspondence re proposed consultancy: includes interesting letter from Peierls on relations between academic and industrial scientists.
- *F.22 Max-Planck - Institut für Physik und Astrophysik 1964-74
Correspondence re nominations and nomination proceedings for Planck Medal (in German and in English).
- F.23-F.34 The Pugwash Conferences on Science and World Affairs 1960-74
12 folders:

'Pugwash' is an international movement for peaceful cooperation between scientists, with special reference to the dangers of new methods of warfare. It takes its name from Pugwash in Nova Scotia, where the first conference was held in 1957.

Peierls played an active part in this, as in other movements aimed at international understanding; he served also on the Continuing Committee 1963-74 and was its Chairman 1969-74, and gave the annual Pugwash Conferences priority wherever possible over other engagements.

The folders preserve the order in which Peierls kept the documents and correspondence, though there is some overlap of contents.
- F.23-F.29 General correspondence on Pugwash affairs; financial and administrative policy, officers and staff; meetings, conferences, topics and invitations for discussions; relations with other societies.
- *F.23 Correspondence 1960-64 (includes Peierls's 'Impression of the Pugwash Conference, Moscow, November 1960').
- F.24 Correspondence 1965-66.
- F.25 Correspondence 1967-68.
- F.26 General correspondence 1969 (includes discussion of proposed British Society for Social Responsibility in Science, and a draft paper by Peierls 'A ban on the development of new weapons?', and letter to New Scientist).

- F.27 1970 (includes preliminary approaches for meeting of 'The Social Impact of Modern Biology' to be held jointly with British Society for Responsibility in Science - co-sponsorship dropped; and British Pugwash meeting on C.S. (see also F.33).
- F.28 1971-72 (includes arrangements for 1972 International Conference, held in Oxford).
- *F.29 1972-74.
- F.30 Correspondence relating to negotiations re application by Pugwash Limited for registration as a charity.
- *F.31 Pugwash Continuing Committee 1969-74. General correspondence on Pugwash affairs; contents have some overlap with F.26-F.29 above, but were kept as separate file by Peierls.
- *F.32 Cockcroft Memorial Appeal. Peierls was Chairman of the Appeal Committee. Correspondence with Trustees and donors, bibliography on reactor safety, drafts of letters, of appeal, of pamphlet, copies of appeal, lists of trusts, companies and individuals.
- F.33 Pugwash Symposium on C.S. Gas and the Geneva Protocol, 29 May 1970 (see also F.27). Correspondence, programme of meeting, papers circulated for information.
- F.34 Pugwash Study Group on Pollution, Oxford, 22 June 1971. List of participants, drafts of interim reports and correspondence with participants re amendments and corrections, requests for information re other studies in preparation for meeting.
- F.35-F.40 The Royal Society
- Files F.35-F.38 are restricted, and are not indexed.
- *F.35-F.36 Correspondence on nominations and elections, composition and policy of sectional committees, publications policy, other Society business.
- *F.35 1951-63
- *F.36 1964-74
- *F.37 Papers and correspondence re a proposal by Peierls and N. Kurti for an enlarged or modified membership of the Royal Society 1971-72.
- *F.38 Peierls's reports on publications submitted to him for reference, or by him for publication in Proc. Roy. Soc.
- F.39 General correspondence on Society business, invitations to serve on committees, etc.: includes short correspondence on report on mathematical training for physicists (to be prepared by Peierls, see also F.18) and Peierls's reactions to the Green Paper 'A Framework for Government research and development'. 1958-72.

F.40.	Shorter correspondence re Nuclear Physics Committee, on which Peierls served 1951-52.	
F.41-F.45	Science Research Council	
F.41	Correspondence re Peierls's service as member of SRC Science Board (Chairman: Hans L. Kornberg) and as Chairman, Atlas Computer Committee: includes correspondence and memoranda on policy (see also F.2).	1969-73
F.42	Correspondence re Rutherford High Energy Laboratory: meetings, Advisory Committee on use of IBM 360/195, study groups, etc. (see also F.2, F.50).	1965-72
*F.43	Correspondence re SRC Cognitive Sciences Panel, of which Peierls was Chairman.	1973-74
*F.44	Correspondence re International Theoretical Physics Institute, submitted for consideration to SRC Nuclear Physics Committee: draft proposal and comments; Peierls's draft alternative proposal (5 pp.), minutes and correspondence.	1967-68
*F.45	Nato Advanced Study Institute, and SRC Research Grants: misc. correspondence and reports on research projects and grant applications (not indexed).	1966-74
F.46	<u>Society for the Protection of Science and Learning</u> (formerly Academic Assistance Council). Misc. correspondence on work and circumstances of scholars abroad.	1947-58
F.47	<u>Society for Visiting Scientists</u> : includes brief correspondence re Klaus Fuchs case, 1950.	1947-51
F.48	<u>United Nations Association Disarmament Committee</u> . Peierls served on the Committee 1968-74 as Scientific Adviser, when it was reorganised as a Working Group to which he continued to act as consultant. As he was rarely able to attend meetings in person, he contributed several papers for committee consideration, often after consultation and assessment among scientific colleagues. Topics dealt with include the test-ban; chemical and biological warfare; gas centrifuges; the SALT treaties; operation Plowshare, etc.	1968-74
F.49	<u>Miscellaneous Committees</u>	
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	Center for Theoretical Studies, University of Miami (declined).	1973-74
	Council for Unified Research and Education (declined).	1972

	The Independent University: Academic Advisory Committee (declined).	1971
	Institute of Fundamental Theoretical Physics, Academic Board (declined).	1968-69
	Ministry of Aviation: Liquid Engines Division.	1965
	Ministry of Supply.	1948
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	Society for Anglo-Chinese Understanding (declined).	1965
	Society for Education in The Applications of Science. (See also Pugwash, F.23-F.34.)	1968, 1971
F.50	CERN (European Organisation for Nuclear Research). Correspondence re formation of Theoretical Physics Group at Geneva (1955), selection of UK research students for CERN Copenhagen (1955), careers for theoretical physicists (1969-70). See also F.2, F.41.	1955-70

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