

Supplementary catalogue of the papers and  
correspondence of

**Sir (Frederick) Charles Frank FRS**

(1911-1998)

**VOLUME II**

Section E: Lectures

Section F: Societies and Organisations

Section G: Consultancies

Section H: Visits and Conferences

Section J: Correspondence

Section K: References and Appointments

Appendix: Medals and Academic Gowns

Index of Correspondents

by Caroline Thibaud and Timothy E. Powell  
NCUACS catalogue no. 127/13/03

SECTION E	LECTURES, E.91-E.185	1938-2001
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Includes contribution to a television broadcast at E.164, and photographic slides used for illustrating lectures (E.173-E.185).

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|-----------|---|------|
| E.91      | 'The Behaviour of Plastics in High Frequency Fields in Relation to their Chemical Structure', Mouldrite Colloquium, Imperial Chemical Industries Ltd, Billingham, Co. Durham, c. January 1938<br><br>Correspondence <i>re</i> arrangements. | 1938 |
| E.92-E.99 | 'Nuclear Structure and Nuclear Energy', occasionas unknown, October 1945<br><br>The lecture was read twice.   | 1945 |
| E.92-E.94 | Typescript drafts of the lecture.<br><br>3 folders.   | 1945 |
| E.95-E.99 | Manuscript draft of the lecture.<br><br>5 folders.  | 1945 |
| E.100     | 'Structure of the Universe', The Folk House, Bristol, 5 January 1948<br><br>Programme of lectures at the Folk House.  | 1948 |
| E.101     | 'Theories of Planetary Evolution', University of Bristol Scientific Society, 27 November 1951<br><br>Correspondence and manuscript notes.   | 1951 |
| E.102     | 'The Mechanical Properties of Metals', The Guthrie Lecture, The Institute of Physics, London, c. 1951<br><br>Typescript lecture notes and summary.  | 1951 |

**Lectures, E.91-E.185**

E.103	Untitled lecture starting 'Crystals may be grown from pure substance or from solutions...', Kapitza Club, Cambridge, 22 April 1952  Manuscript lecture notes with 2 black and white photographs.	1952
E.104	Introductory note on colour films 'Crystal Growth', Bristol Naturalists' Society, 22 January 1953  Programme of events of the Bristol Naturalists' Society.	1953
E.105	'Twinning and Kinking', Bristol Summer School, 14 July 1953  Manuscript lecture notes.	1953
E.106	'Modern Cosmology', Bristol Philosophical Society, 11 December 1953  Manuscript lecture notes.	1953
E.107	Spiral growing experiment, shown at Royal Society Soiree, London, early 1954  1 letter only <i>re</i> arrangements.  There is no proof of Frank's participation.	1954
E.108, E.109	'The Nature of the Real Crystal', 45th Annual May Lecture, Institute of Metals, London, 29 March 1955  Correspondence, typescript and manuscript drafts, proofs.  2 folders.	1955
E.110	'Reflections on Sadi Carnot', inaugural lecture, University of Bristol, 29 April 1955  Poster of the lecture.	1955
E.111	Untitled lectures, Royal Military College of Science,	1956



**Lectures, E.91-E.185**

Shrivenham, 28-29 September 1956

1 letter only *re* arrangements.

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|--------------|--|------|
| E.111A       | ‘Introductory lecture for Cooperstown conference’, International Crystal Growth conference, Cooperstown, New York, summer 1958     | 1958 |
|              | Typescript lecture notes.  |      |
| <br>         |  |      |
| E.112, E.113 | ‘The Nature of Things’, Incorporated Society of Musicians, Bristol, 6 January 1962   | 1961 |
|              | Correspondence <i>re</i> arrangements and manuscript draft lecture notes.  |      |
| <br>         |  |      |
| E.114        | Untitled lecture, Solid State Seminar, University of Cambridge, c. Spring 1963   | 1963 |
|              | Correspondence <i>re</i> arrangements.   |      |
| <br>         |  |      |
| E.115        | ‘Introduction to Civil Defence course’, University of Bristol, 3 January 1966  | 1966 |
|              | Manuscript lecture notes.  |      |
| <br>         |  |      |
| E.116        | Address at Peter Fowler’s inaugural lecture as Professor of Physics, University of Bristol, 17 February 1966                       | 1966 |
|              | Typescript notes.  |      |
|              | Frank took the Chair.  |      |
| <br>         |  |      |
| E.117        | ‘Introduction to Civil Defence course’, Part II course for Scientific Intelligence Officers, University of Bristol, 2 January 1967 | 1967 |
|              | Correspondence <i>re</i> arrangements and programme of the course; Frank’s manuscript lecture notes.                               |      |
| <br>         |  |      |
| E.118, E.119 | ‘On Hertzian Fracture’, with B.R. Lawn, Royal Society,   | 1967 |



**Lectures, E.91-E.185**

London, 20 April 1967

E.118	Programme and manuscript notes	1967
E.119	Figures and 2 black and white photographs	1967
E.120	'Potentialities for Earthquakes Prediction', Boulder, Colorado, USA, 5 September 1967  Typescript lecture notes.	1967
E.121	'How was the Earth Formed?', occasion unknown, 26 July 1969  Manuscript and typescript notes.	1969
E.122	Speech at 'Winford Hospital Nurse's Prize Giving', Winford Orthopaedic Hospital, Bristol, 16 June 1971  Correspondence <i>re</i> arrangements, programme of the ceremony and manuscript speech notes.	1971
E.123, E.124	'Crystal Imperfections', Bakerian Lecture, The Royal Society, 14 June 1973  Correspondence <i>re</i> arrangements and publication, typescript abstract and manuscript lecture notes.  2 folders.	1973-1974
E.125	'Public Orator's Presentation Address for Professor R.V. Jones', Honorary Degree ceremony, University of Aberdeen, 10 July 1979  Typescript address notes.  R.V. Jones was awarded a Doctor of Laws Honoris Causa degree.	1979
E.126	'Prince Rupert's Drops', Portfolio Society, Bristol, 12 October 1979.	1979

**Lectures, E.91-E.185**

Correspondence *re* arrangements.

E.127	'Address for the Opening of a new wing at the Red Maids' School', Bristol, 15 October 1981  Typescript speech notes and 1 black and white photograph.	1981
E.128	'Crystal Growth without Dislocations', William James Dunning Memorial Colloquium, School of Chemistry, University of Bristol, 17 November 1981  Certificate of lecture.	1981
E.129	'Orientation Mapping', Colloquium at the H.H. Wills Laboratory, University of Bristol, 31 January 1983  Typescript lecture notes with figures.	1983
E.130-E.134	'Orientation Mapping', Department of Metallurgy and Materials Science Colloquia, University of Cambridge, 28 February 1983	1983
E.130	Correspondence <i>re</i> arrangements	1983
E.131	Programme	1983
E.132-E.134	Manuscript background notes  3 folders.	1983
E.135-E.142	'Orientation Mapping', European Workshop on Non destructive Evaluation of Polymers and Polymer Matrix Composites, Vimeiro, Portugal, 3-4 September 1984	1984
E.135	1 letter <i>re</i> publication of contribution.	1984

**Lectures, E.91-E.185**

E.136	Manuscript lecture notes with abstract	1984
E.137	Printed lecture, as published in Proceedings of the Workshop	1986
E.138	'Orientation Mapping transparencies'  Folder so inscribed: photocopies of transparencies.	1986
E.139	Transparencies used for the lecture.	1986
E.140, E.141	Manuscript notes and drawing  2 folders.	1986
E.142	Background calculations and drawings.	1986
E.143	'Some Personal Reminiscences of the early days of Crystal Dislocations', Metal Society Discussion on Dislocations and Properties of Real Materials, Royal Society, London, 11 December 1984  Typescript lecture notes and proceedings contents. See also H.241-H.244.	1984
E.144	'Polymer Physics: Early Days', Reading, 12 September 1985  Correspondence and typescript lecture notes. See also H.247	1985
E.145	Speech for 'Susan and Alistair wedding', place unknown, 14 September 1985  Manuscript speech notes.	1985
E.146	'The Icosahedral Orientation Manifold as a Model for	1986



**Lectures, E.91-E.185**

Icosahedral Close-packing', Colloque C3, Occasion unknown, France?, July 1986

Prints published in the *Journal de Physique*, Tome 47, July 1986.

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|-------------|---|-----------|
| E.147       | <p>'Some thoughts about Carnot and about Olinde Rodrigues', Seminaire Général, Laboratoire de Physique des Solides, Université Paris-Sud, France, 29 October 1986</p> <p>Poster of the lecture.</p>   | 1986      |
| E.148       | <p>Untitled lecture starting 'In D symmetry (e.g that of an n-agonal prism) we have one principal axis of n-fold rotational symmetry...', occasion unknown, 9 June 1987</p> <p>Typescript lecture notes.</p>  | 1987      |
| E.149       | <p>Speech at 'Convocation Lunch', University of Bristol, 18 July 1987</p> <p>Luncheon programme and menu and manuscript speech notes.</p>   | 1987      |
| E.150-E.155 | <p>'Orientation Mapping', 8th International conference on Textures of Materials, Santa Fe, USA, 21 September 1987</p> <p>See also H.254-H.257.</p> <p>Frank was a recipient of the Robert F Mehl medal of the American Metallurgical Society for 1987 and the lecture 'Orientation Mapping' was intended to be delivered on the occasion of the ceremony. However ill health prevented Frank from travelling to Denver, Colorado for the ceremony and the lecture was delivered later on the 21st of September 1987 at the 8th International conference on Textures of Materials in Santa Fe, New Mexico.</p> | 1986-1988 |
| E.150       | <p>Correspondence <i>re</i> arrangements and publication</p>  | 1986-1988 |
| E.151       | <p>Print out and abstract of the lecture</p>  | 1987      |

**Lectures, E.91-E.185**

E.152, E.153	'Orientation Mapping transparencies', folder so inscribed  Includes calculations.  2 folders.	1987
E.154	Manuscript and typescript notes and comments on a paper	1987
E.155	6 large size black and white photographs; manuscript notes on slides	1987
E.156	'One Hundred Years of the Bristol Scientific Club', Bristol Scientific Club, Bristol, 21 November 1987  Manuscript lecture notes and programme of the Bristol Scientific Club for 1987-1988.	1987
E.157	'For Badminton School Open Day', Bristol, 28 May 1988.  Correspondence thanking Frank for his speech, manuscript speech notes, manuscript biographical notes on Frank given to Badminton School.	1988
E.158-E.163	'Orientation Mapping', Mathematical Problems in Material Science conference, International Centre for Mathematical Sciences, Edinburgh, 11 October 1991  See also H.294.	1991
E.158	Correspondence <i>re</i> arrangements	1991
E.159	Programme and invitation	1991
E.160	Printed version of the lecture	1991
E.161	Manuscript notes and typescript lecture draft	1991

**Lectures, E.91-E.185**

E.162	Figures and transparencies	1991
E.163	1 photographic negative	1991
E.164	<p>'Hitler's Bomb', Horizon, BBC Television programme, 20 October 1991</p> <p>Correspondence <i>re</i> arrangements.</p> <p>Frank was interviewed for the programme because of his involvement in intelligence work during World War Two and in the subsequent internment of German scientists at Farm Hall, near Huntingdon. The conversations between the captives were secretly recorded and eventually published in the 1990s (see D.360-D.406).</p>	1991-1992
E.165, E.166	<p>'Snowflakes', Physics Department, University of Bristol, 7 December 1995</p> <p>Video tape of the lecture, with letter <i>re</i> the deposit of the tape in the University of Bristol Archives.</p>	1995, 2001
E.167	<p>'Talk for Polymer conference', Polymer Physics Group conference, on board the SS Great Britain, Bristol, 11 September 1997</p> <p>Correspondence and manuscript lecture notes.</p>	1997
E.168	<p>'Comments on Nucleation Theory', Lecture 20, occasion and date unknown</p> <p>Typescript lecture notes.</p>	n.d.
E.169	<p>'Current Trends in Polymer Physics', occasion and date unknown</p> <p>Manuscript lecture notes.</p>	n.d.
E.170	Untitled address starting 'I'm here at rather short notice, you know', occasion and date unknown	n.d.



**Lectures, E.91-E.185**

The speech is addressed to students who are making education and career choices.

E.171, E.172	Untitled, undated lecture notes with 1 black and white photograph and transparencies  2 folders.	n.d.
E.173-E.185	Photographic slides  Most of these (E.173-E.183) are glass lantern slides, found in cardboard boxes. Some of the boxes have inscriptions of subjects but it is not possible to say whether these are authoritative descriptions of the contents.	1950s, n.d.
E.173	'0'  Box of 6 glass slides.	N.d.
E.174	'Dr Keller Slides on zig-zags. I'  Box of 8 glass slides.	N.d.
E.175	'I Lineage etc'  Box of 9 glass slides.	N.d.
E.176	'2 Kinking'  Box of 5 glass slides.	N.d.
E.177	'3'  Box of 3 glass slides.	N.d.
E.178	'Smialowski structure. III [...] IV'  Box of 8 glass slides.	N.d.

**Lectures, E.91-E.185**

E.179	'Spherulites. V. Feb /55'  Box of 7 glass slides.	?1955
E.180	'Cdl (2) inferior'  Box of 7 glass slides.	N.d.
E.181	'Prof N.F. Mott 25.11.55'  Box of 5 glass slides.	1953
E.182	Untitled box  Box of 7 glass slides.	N.d.
E.183	Untitled box  Box of 8 glass slides.	N.d.
E.184	Single double-sized glass lantern slide	N.d.
E.185	Sleeve of small format glass slides  Includes two series numbered 1-14 and a-c.  19 slides.	N.d.

**SECTION F**                      **SOCIETIES AND ORGANISATIONS, F.381-F.466**                      **1935-1995**

F.381	ARMAMENT RESEARCH AND DEVELOPMENT ESTABLISHMENT
F.382, F.383	ASSOCIATION OF SCIENTIFIC WORKERS
F.384	ATOMIC SCIENTISTS ASSOCIATION
F.385	AUDIO-LEARNING LTD
F.386, F.387	BRISTOL MUNICIPAL CHARITIES
F.388	BRISTOL SCIENTIFIC CLUB
F.389	CHEMICAL SOCIETY
F.390	DEPARTMENT OF EDUCATION AND SCIENCE
F.391, F.392	DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
F.393	EUROPEAN PHYSICAL SOCIETY
F.394	FARADAY SOCIETY
F.395-F.397	HOME OFFICE
F.398-F.400	INSTITUTE OF PHYSICS
F.401-F.419	INTERNATIONAL ORGANIZATION FOR CRYSTAL GROWTH
F.420-F.423	LINCOLN COLLEGE OXFORD
F.424-F.426	MINISTRY OF DEFENCE
F.427, F.428	MINISTRY OF SUPPLY



**Societies and organisations, F.381-F.466**

F.429-F.446	PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS
F.447	QUEEN ELIZABETH'S HOSPITAL SCHOOL
F.448-F.464	ROYAL SOCIETY
F.465	UNIVERSITY OF ABERDEEN
F.466	UNIVERSITY GRANTS COMMITTEE

**Societies and organisations, F.381-F.466**

<b>F.381</b>	<b>ARMAMAMENT RESEARCH AND DEVELOPMENT ESTABLISHMENT</b>	<b>1961</b>
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Correspondence *re* and agenda of meeting of Working Party on Conducting Compositions.

Frank was a member of the committee.

<b>F.382, F.383</b>	<b>ASSOCIATION OF SCIENTIFIC WORKERS</b>	<b>1935-1941</b>
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Correspondence, membership card and subscription records.

2 folders.

<b>F.384</b>	<b>ATOMIC SCIENTISTS ASSOCIATION</b>	<b>1949</b>
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1 letter only.

<b>F.385</b>	<b>AUDIO-LEARNING LTD</b>	<b>1981</b>
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Correspondence *re* royalty payments.

<b>F.386, F.387</b>	<b>BRISTOL MUNICIPAL CHARITIES</b>	<b>1987-1989</b>
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Correspondence, agenda and minutes of meetings of the trustees.

2 folders.

Frank was a trustee of Bristol Municipal Charities.

**Societies and organisations, F.381-F.466**

<b>F.388</b>	<b>BRISTOL SCIENTIFIC CLUB</b>	<b>1987</b>
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Correspondence, some *re* admission of women scientists to the Club.

Frank was a member of the Bristol Scientific Club.

<b>F.389</b>	<b>CHEMICAL SOCIETY</b>	<b>1942</b>
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1 letter.

<b>F.390</b>	Not used.
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<b>F.391, F.392</b>	<b>DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b>	<b>1963, 1968</b>
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Minutes and papers for meetings of the Electronic Research Council and the Metallurgy and Material Sub-Committee.

2 folders.

<b>F.393</b>	<b>EUROPEAN PHYSICAL SOCIETY</b>	<b>1992-1995</b>
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Correspondence, by-laws and membership records.

Frank was a member of the European Physical Society.



**Societies and organisations, F.381-F.466**

<b>F.394</b>	<b>FARADAY SOCIETY</b>	<b>1941-1946</b>
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*Re* membership.

<b>F.395-F.397</b>	<b>HOME OFFICE</b>	<b>1959-1967</b>
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Material *re* Civil Defence.

Frank was a Regional Scientific Adviser for Civil Defence.

<b>F.395</b>	<b>Correspondence</b>	<b>1959-1967</b>
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<b>F.396</b>	<b>List of Regional Scientific Advisers for Civil Defence</b>	<b>1960</b>
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<b>F.397</b>	<b>Exercise books with manuscript notes</b>	<b>1958, 1960</b>
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Used for civil defence notes.

**Societies and organisations, F.381-F.466**

<b>F.398-F.400</b>	<b>INSTITUTE OF PHYSICS</b>	<b>1965-1995</b>
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Correspondence, annual dinner programme, etc.

3 folders.

<b>F.401-F.419</b>	<b>INTERNATIONAL ORGANIZATION FOR CRYSTAL GROWTH</b>	<b>1966-1975</b>
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Frank was President of the Comité International de Croissance Cristalline between 1968-1971 and closely involved in the organisation of the 1968 International Conference on Crystal Growth in Birmingham.

<b>F.401-F.405</b>	<b>General correspondence</b>	<b>1968-1975</b>
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Correspondence *re* the formation of the Comité International de Croissance Cristalline, the *Journal of Crystal Growth*, committee membership, constitutions drafting and conference proceedings.

5 folders.

<b>F.406</b>	<b>Agenda and minutes of meetings</b>	<b>1969</b>
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<b>F.407</b>	<b>By-laws and constitutions of the International Organization for Crystal Growth</b>	<b>1966-1974</b>
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<b>F.408-F.419</b>	<b>International Conference on Crystal Growth, Birmingham, 15-19 July 1968.</b>	<b>1967-1969</b>
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<b>F.408-F.415</b>	<b>Correspondence <i>re</i> the organisation of the conference and publication of the proceedings</b>	<b>1967-1969</b>
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8 folders.

<b>F.416</b>	<b>Conference programme.</b>	<b>1968</b>
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**Societies and organisations, F.381-F.466**

F.417	Budget	1968
F.418	Publication of proceedings	1968
F.419	Abstracts	1968
<b>F.420-F.423</b>	<b>LINCOLN COLLEGE OXFORD</b>	<b>1989-1995</b>
	Frank was an alumnus of Lincoln College.	
F.420, F.421	Correspondence 2 folders.	1989-1995
F.422	Invitations and seating plans for Spring Feasts	1989-1993
F.423	Lincoln College magazines	1991, 1994



**Societies and organisations, F.381-F.466**

<b>F.424-F.426</b>	<b>MINISTRY OF DEFENCE</b>	<b>1960-1973</b>
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Correspondence, background information and drafts.

3 folders.

<b>F.427, F.428</b>	<b>MINISTRY OF SUPPLY</b>	<b>1956-1966</b>
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Correspondence *re* service on the High Explosive Committee of the Weapons and Explosive Advisory Board of the Advisory Council of Scientific Research and Technical Development.

Also correspondence *re* the Liquid Fuel Committee of the Munitions Chemistry Advisory Board.

2 folders.

Frank was a member of the High Explosive Committee of the Weapons and Explosive Advisory Board and the Liquid Fuel Committee of the Munitions Chemistry Advisory Board.

<b>F.429-F.446</b>	<b>PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS</b>	<b>1975-1992</b>
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Frank was a member of the British Pugwash Group.

<b>F.429</b>	<b>Correspondence.</b>	<b>1975</b>
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<b>F.430</b>	<b>Minutes of British Pugwash Group meeting 23 March 1978</b>	<b>1978</b>
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<b>F.431-F.440</b>	<b>40th Annual Pugwash Conference, Royal Holloway and Bedford New College, Egham, Surrey, 15-20 September 1990</b>	<b>1990</b>
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<b>F.431</b>	<b>Correspondence.</b>	<b>1990</b>
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**Societies and organisations, F.381-F.466**

F.432	Statements and greetings from politicians and academics delivered on the occasion of the conference	1990
F.433	Programme and proceedings of British Pugwash public meeting	1990
F.434-F.438	Papers delivered.  5 folders.	1990
F.439	Working Group reports	1990
F.440	List of papers and participants	1990
F.441	Conference statement of 41st Pugwash Annual Conference (Beijing, China, 17-22 September 1991)	1991
F.442	42nd Annual Conference programme (Berlin, Germany, 11-17 September 1992)	1992
F.443	Notice of a meeting of Pugwash Ltd	1991
F.444	Brochure and text on the Pugwash Conferences on Science and World Affairs movement	1978, 1990
F.445	Letter to the Editor of <i>The Times</i> by Joseph Rotblat, 11 October 1991	1991
F.446	Articles on arms research and wartime research at the University of Bristol	1980, 1983

**Societies and organisations, F.381-F.466**

<b>F.447</b>	<b>QUEEN ELIZABETH'S HOSPITAL SCHOOL</b>	<b>1975</b>
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Agenda for committee meeting and correspondence.

<b>F.447-F.464</b>	<b>ROYAL SOCIETY</b>	<b>1940-1995</b>
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Frank was elected a Fellow of the Royal Society in 1954. He gave the Bakerian Lecture in 1973 and was awarded the Royal Medal in 1979 and the Copley Medal in 1994. He served on a number of Royal Society bodies, including Council 1967-1969 (Vice-President).

F.447, F.448	General correspondence	1940-1995
	2 folders.	

F.449, F.450	Royal Society Anniversary correspondence	1994
	2 folders.	

F.451-F.455	Armourers and Brasiers' Company Research Fellowship Committee	1966-1990
	Frank was a member of the Armourers and Brasiers' Company Research Fellowship Committee.	

F.451-F.453	Correspondence	1966-1990
	3 folders.	

F.454, F.455	Agenda and minutes	1966, 1972
	2 folders.	

F.456-F.459	British National Committee for the History of Science, Medicine and Technology	1972-1976
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F.456, F.457	Correspondence	1972-1976
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**Societies and organisations, F.381-F.466**

	2 folders.	
F.458, F.459	Agenda and minutes of meetings 2 folders	1973
F.460	Committee on an Experiment in Synoptic Publishing Correspondence.	1978
F.461	R.W. Paul Instrument Fund Committee Correspondence.	1977-1980
F.462	Miscellaneous Royal Society communications	1984-1995
F.463, F.464	Royal Society Club Correspondence, minutes, agenda and reports. 2 folders.	1982

**Societies and organisations, F.381-F.466**

<b>F.465</b>	<b>UNIVERSITY OF ABERDEEN</b>	<b>1949-1970</b>
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Correspondence etc.

Frank was an external examiner for the University of Aberdeen.

<b>F.466</b>	<b>UNIVERSITY GRANTS COMMITTEE</b>	<b>1970</b>
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*Re* attendance at meetings of the Physical Sciences Sub-Committee and Working Party on Material Studies.

**SECTION G**

**CONSULTANCIES, G.131-G.181**

**1949-1997**

G.131	BRITISH AIRCRAFT CORPORATION
G.132	BRITISH RAILWAYS
G.133	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
G.134-G.174	DE BEERS
G.175	FIBREGLASS LTD
G.176	GENERAL ATOMIC
G.177	GENERAL ELECTRIC
G.178	IMPERIAL CHEMICAL INDUSTRIES
G.179	INTERNATIONAL BUSINESS MACHINES
G.180	PILKINGTON BROTHERS LTD
G.181	UNIVERSITY OF CALIFORNIA: INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS



**Consultancies, G.131-G.181**

<b>G.131</b>	<b>BRITISH AIRCRAFT CORPORATION</b>	<b>1964</b>
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Offer to Frank of consultancy in the company's Guided Weapons Division in the field of solid state.

See G.1 of the previous catalogue

<b>G.132</b>	<b>BRITISH RAILWAYS</b>	<b>1949</b>
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Letter *re* meeting of Water Treatment Committee, November 1949.

See G.2-G.33 of the previous catalogue.

<b>G.133</b>	<b>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE</b>	<b>1987</b>
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Letter *re* meeting of the Comité Scientifique to the Laboratoire de Physique des Solides.

<b>G.134-G.174</b>	<b>DE BEERS</b>	<b>1964, 1973- 1997</b>
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The bulk of this material relates to the work of the Diamond Research Committee and the Diamond Conferences.

See G.24-G.99 of the previous catalogue.

<b>G.134-G.137</b>	<b>General correspondence and papers</b>	<b>1964-1996</b>
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<b>G.134</b>	Correspondence, chiefly enclosing Frank's consultancy fees	<b>1964-1996</b>
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**Consultancies, G.131-G.181**

G.135	Miscellaneous correspondence, chiefly from E.W.G. Mitchell and A.R. Lang	1987-1996
G.136	<p>'The next decade' at De Beers-sponsored UK University Research on diamond</p> <p>Bound volume; related correspondence and notes.</p> <p>This was prepared by E.W.G. Mitchell.</p>	1991
G.137	<p>'Forward Look 1996-2001' at De Beers-sponsored UK University Research on diamond</p> <p>Bound volume; related correspondence.</p> <p>This was prepared by A.D.E. Stewart, R.J. Caveney and E.W.G. Mitchell.</p>	1996
<b>G.138-G.142</b>	<b>Diamond Research Committee meetings</b>	<b>1985-1995</b>
	Papers for meetings, chiefly minutes.	
G.138	1985-1988	
G.139	1989-1991	
G.140	1992	
G.141	1993	
G.142	1994-1995	

**Consultancies, G.131-G.181**

<b>G.143-G.147</b>	<b>Diamond research reports</b>	<b>1992-1996</b>
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Half-yearly reports from researchers funded by the  
Diamond Research Committee

G.143	January 1992
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G.144	February 1993
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G.145	February 1994
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G.146	February 1995
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G.147	February 1996
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<b>G.148-G.172</b>	<b>Diamond Conferences</b>	<b>1973-1997</b>
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G.148	Reading, 15-18 July 1973	1973
	Bound volume of conference papers.	

G.149	Reading, 6-9 July 1977	1977
	Bound volume of conference papers.	

G.150	St Catherine's College Oxford, 9-12 July 1978	1978
	Bound volume of conference papers.	

G.151	Bristol, 7-9 July 1980	1980
	Bound volume of conference papers.	



**Consultancies, G.131-G.181**

G.152	Newnham College, Cambridge, 6-9 July 1983 Bound volume of conference papers.	1983
G.153	Bristol, 9-11 July 1984 Bound volume of conference papers.	1984
G.154	Reading, 10-13 July 1985	1985
G.155	Royal Holloway and Bedford New College, 7-9 July 1986 Miscellaneous conference information.	1986
G.156, G.157	Oxford, 5-8 July 1987	1987
G.156	Conference information, programme and list of participants	
G.157	Bound volume of conference papers.	
G.158	Newnham College, Cambridge, 6-9 July 1988 Bound volume of conference papers.	1988
G.159	Bristol, 5-8 July 1989 Bound volume of conference papers.	1989
G.160	Reading, 11-14 July 1990 Bound volume of conference papers.	1990
G.161, G.162	St Catherine's College, Oxford, 7-10 July 1991	1991

**Consultancies, G.131-G.181**

G.161	Conference information; annotated programme	
G.162	Bound volume of conference papers	
G.163, G.164	Robinson College, Cambridge, 5-8 July 1992	1992
G.163	Correspondence and papers <i>re</i> Bristol contributions to the conference	
G.164	Bound volume of conference papers	
G.165, G.166	Bristol, 11-14 July 1993	1992-1993
G.165	Correspondence and papers <i>re</i> arrangements	
G.166	Bound volume of conference papers.	
G.167, G.168	Reading, 11-13 July 1994	1994
G.167	Correspondence and papers <i>re</i> arrangements; annotated programme	
G.168	Bound volume of conference papers	
G.169, G.170	St Catherine's College Oxford, July 1995	1995
G.169	Correspondence and papers <i>re</i> arrangements	
G.170	Bound volume of conference papers	
G.171	Queen's College, Cambridge, July 1996	1996

**Consultancies, G.131-G.181**

Bound volume of conference papers.

Frank was unable to attend. A signed postcard from delegates at the conference is at the front of the volume.

G.172 Bristol, 14-16 July 1997 1997

Bound volume of conference papers.

**G.173, G.174 Grant applications 1976-1991**

Research applications to the Diamond Research Committee.

G.173 1976, 1987

G.174 1991

**G.175 FIBREGLASS LTD 1965-1969**

Correspondence *re* consultancy.

Frank was appointed a consultant in the field of applied polymer physics in association with glass fibres.

**G.176 GENERAL ATOMIC 1965**

Consultancy agreement.

**G.177 GENERAL ELECTRIC (GE) 1951-1960**

Consultancy agreements 1951, 1957, 1959.

See G.100-G.113 of the previous catalogue.



**Consultancies, G.131-G.181**

**G.178**                      **IMPERIAL CHEMICAL INDUSTRIES (ICI)**                      **1974**

Brief correspondence *re* consultation meeting in London,  
November 1974.

See G.114 of the previous catalogue.

**G.179**                      **INTERNATIONAL BUSINESS MACHINES CORPORATION (IBM)**                      **1978**

Correspondence *re* consultancy agreement.

See G.115-G.122 of the previous catalogue.

**G.180**                      **PILKINGTON BROTHERS LTD**                      **1969-1971**

Correspondence *re* consultancy status.

A consultancy with Pilkington followed on from that for  
Fibreglass Ltd (G.175).

**G.181**                      **UNIVERSITY OF CALIFORNIA: INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS**                      **1964-1965**

Papers *re* consultancy and visit to US in general.

While serving as a Visiting Professor and researcher,  
Frank was an associate investigator for the Institute of  
Geophysics and Planetary Physics on a US Air Force  
supported Geophysics project.

SECTION H	VISITS AND CONFERENCES, H.170-H.307	1933-1997
H.170	Faraday Society Discussion meeting, ?London, April 1933  Manuscript notes, possibly on a lecture delivered by [?] Stewart.	1933
H.171	'Dipole Moments', 6th General Discussion of the Faraday Society, University of Oxford, 12-14 April 1934  Proceedings of the discussion including a transcript of Frank's participation in a general discussion on 'Polarity and the Association of Liquids' by A.R. Martin and 'Dipole Association in Pure Liquids' by Pierre Girard.	1934
H.172	Holiday Fellowship weekend, Oxford, 1935  Programme of the weekend's activities.	1935
H.173	63rd General Discussion of the Faraday Society, Cambridge, 26-28 September 1935  Photocopies of a group photograph featuring Frank and introductory notes to the meeting in the <i>Transactions of the Faraday Society</i> , 1936.	1936
H.174	Royal Society Conversazione, London, 28 May 1936  Programme of the conversazione.	1936
H.175	Annual Meeting of the British Association for the Advancement of Science, Dundee, 1939  Menu of Section B dinner with colleagues' autographs.	1939
H.176	Physical Society discussion on 'The Electrical and General Physical Properties of Plastics', London, 19 March 1940  Programme, correspondence and manuscript notes on Frank's participation in the discussion.	1940

**Visits and conferences, H.170-H.307**

H.177	Metal Congress, Laboratory of Physics, Amsterdam, The Netherlands, July 1948	1948
	List of demonstrations to congress attendees.	
	No proof of Frank's attendance.	
H.178-H.181	General Discussion of the Faraday Society on Crystal Growth, University of Bristol, 12-14 April 1949	1948-1949
	Frank was closely involved in the organisation of the discussion.	
H.178	Correspondence <i>re</i> the programme of the meeting	1948-1949
H.179	Draft programmes	1948-1949
H.180	Manuscript notes and typescript draft of Frank's paper 'The Influence of Dislocations on Crystal Growth'	1949
H.181	Typescript summaries of papers.	1949
H.182	Royal Society meeting, London, 19 May 1949	1949
	Programme of the meeting.	
	Frank and J.H. Van der Merwe presented a paper entitled 'One-dimensional Dislocations. I Static Theory. II Misfitting Monolayers and Oriented Overgrowth.'	
H.183	Unidentified summer School, ?University of Bristol, c. July 1949.	1949
	Correspondence; 6 black and white photographs of sugar crystals found therewith.	
H.184	General Conference and Annual General Meeting of the British Rheologists Club, University of Bristol, 26-28 September 1949	1949



**Visits and conferences, H.170-H.307**

	Correspondence and programme of the meeting.	
	Frank lectured on 'The Nature of Dislocations in Real Crystal Lattices'.	
H.185	Institute for the Study of Metals Colloquium, University of Chicago, USA, 31 May 1951	1951
	Correspondence <i>re</i> the programme of the colloquium.	
	Frank lectured on 'The Role of Dislocations in Crystal Growth.'	
H.186-H.192	9th Conference on the Solid State, Solvay Institute, Brussels, Belgium, 25-29 September 1951	1950-1951
	Frank lectured on 'Crystal Growth and Dislocations.'	
H.186, H.187	Correspondence <i>re</i> paper and programme of the conference	1950-1951
	2 folders.	
H.188	Typescript draft transcript of discussion, featuring Frank.	1951
H.189	Timetable, list of guests and general information	1951
H.190, H.191	Typescript of Frank's paper 'Crystal Growth and Dislocations'	1951
	2 folders.	
H.192	Manuscript notes on colleagues' papers taken by Frank	1951
H.193	Royal Society discussion on the Theory of Liquids, London, 13 March 1952	1952
	Abstracts of lectures.	
	Frank lectured on 'Supercooling'.	

**Visits and conferences, H.170-H.307**

H.194	'The Creep Conference', place unidentified, 31 May-2 June 1954  1 letter only.	1954
H.195	Visit to Tokyo, Japan, September-October 1953.  Manuscript schedule.  Frank chiefly visited Japan to attend the International Union of Pure and Applied Physics Conference on Theoretical Physics. He visited Kyoto and Tokyo.	1953
H.196	Diamond Conference, Cambridge, 1-3 July 1954  1 letter.	1954
H.197	Conference on Mechanical Effects of Dislocations in Crystals, University of Birmingham, 19-20 July 1954  Programme.	1954
H.198, H.199	3rd International Congress of Crystallography, Paris, France, July 1954  Frank lectured possibly on 'The Theory of Crystal Growth.'	1951-1954
H.198	Correspondence and programme of evening entertainment at the Château de Versailles	1953
H.199	Printed papers by Frank 'Crystal Growth and Dislocations' and 'The Growth of Crystals and the Equilibrium Structure of their Surfaces' (with W.K. Burton and N. Cabrera)  Also includes 3 black and white photographs and manuscript notes.	1951-1952
H.200	Visit to Glaxo Laboratories, unidentified place, c.1954  1 letter only.	1954

**Visits and conferences, H.170-H.307**

H.201	117th Annual Meeting of the British Association for the Advancement of Science, 31 August 1955, Bristol	1955
	Newspaper clipping with photograph of the Presidential address showing Frank and his wife in the audience.	
H.202, H.203	The Faraday Society and the Koninklijke Nederlandse Chemische Vereniging General Joint Discussion on 'The Molecular Mechanism of Rate Processes in Solids', 15-18 April 1957, Royal Tropical Institute, Amsterdam, The Netherlands.	1956-1957
	Correspondence programmes etc.	
	2 folders.	
	Frank lectured on 'Interaction of Dislocations with Vacancies and Interstitials.'	
H.204	5th Course of the International Summer School in Physics, Varenna, Italy, 17 July-7 August 1956	1956
	Correspondence and 4 black and white photographs.	
	Frank lectured on dislocations and metal physics.	
H.205	Faraday Society General Discussion on Configuration and Interactions of Macro-molecules and Liquid Crystals, University of Leeds, 15-17 April 1958	1958
	Correspondence and programme.	
H.206	Royal Society Discussion on Stellar Evolution, London, 3 March 1960	1960
	Manuscript notes taken by Frank.	
H.207	The Scripps Institute Conference, San Diego, USA, 22-24 March 1965	1965
	1 letter only.	
H.208	Adsorption et Croissance Cristalline, Colloque	1964



**Visits and conferences, H.170-H.307**

International du Centre National de la Recherche  
Scientifique, Nancy, France, 7-12 June 1965

Correspondence.

H.209-H.211	Visit to Durban, South Africa, August-September 1965  Frank delivered a series of 9 lectures.	1965
H.209	Correspondence <i>re</i> organisation of the visit.  Includes letters from Maita Frank received in South Africa.	1965
H.210	Programme of lectures	1965
H.211	Newspaper cuttings collected by Frank.	1965
H.212	Symposium on Epitaxial Processes for Electronic Materials, Royal Radar Establishment, Malvern, Worcestershire, 28-30 September 1965  Programme of the symposium.  There is no proof of Frank's attendance.	1965
H.213-H.215	Meeting on European Collaboration in Physics, Pisa, Italy, 16-17 April 1966	1966
H.213	Correspondence <i>re</i> European collaboration between physicists	1966
H.214	Invitation to attend the meeting and manuscript notes	1966
H.215	Postcards and brochure on La Scuola Normale Superiore in Pisa	1966
H.216	International conference on Deformation of Crystalline Solids, Carleton University, Ottawa, Canada, 21-25 August 1966	1964-1965

**Visits and conferences, H.170-H.307**

Correspondence *re* attendance.

- |             |   |      |
|-------------|---|------|
| H.217       | NATO Advanced Study Institute, The Application of Modern Physics to the Earth and Planetary Interiors, University of Newcastle upon Tyne, 29 March-4 April 1967 | 1967 |
|             | Invitation to present a paper and outline of the conference.  |      |
|             | There is no proof of Frank's attendance.  |      |
| <br>        |   |      |
| H.218       | Scientific Intelligence Officers Conference, Exeter University, 20 May 1967   | 1967 |
|             | Correspondence, Frank's timetable, programme of the conference, address notes and notes on speakers.  |      |
|             | Frank gave the welcome address.   |      |
| <br>        |   |      |
| H.219       | Visit to Colorado School of Mines, Golden, Colorado, USA, July-September 1967   | 1967 |
|             | Visa application and correspondence <i>re</i> expenses.   |      |
| <br>        |   |      |
| H.220       | Royal Society Review lecture 'The Alinement of Nuclei' by M.A. Grace, London, 4 April 1968  | 1968 |
|             | Abstract of the lecture.  |      |
|             | Frank attended the lecture.   |      |
| <br>        |   |      |
| H.221       | Discussion meeting on Liquid Crystals, Faculté des Sciences, Montpellier, France, 5-6 June 1969   | 1969 |
|             | Correspondence <i>re</i> arrangements.  |      |
| <br>        |   |      |
| H.222-H.224 | Centenary celebrations of the Bulgarian Academy of Sciences, Sofia, Bulgaria, 1-6 October 1969  | 1969 |
|             | Some of the correspondence and documentation is in French.  |      |
|             | Frank went to the celebrations to represent the Royal Society.  |      |

**Visits and conferences, H.170-H.307**

H.222, H.223	Correspondence <i>re</i> arrangements and report of the visit  2 folders.	1969
H.224	Programmes of celebrations and excursions and invitations	1969
H.225	Visit to Imperial Chemical Industries, Ltd, Petrochemical & Polymer Laboratory, Runcorn, Cheshire, 20 October 1969  Correspondence <i>re</i> arrangements.	1969
H.226, H.227	Royal Society discussion on Strong Fibrous Solids, London, 29 January 1970  Frank lectured on 'The Strength and Stiffness of Polymers.'	1968-1970
H.226	Correspondence <i>re</i> arrangements and publication of the proceedings	1968-1970
H.227	Manuscript and typescript drafts of 'The Strength and Stiffness of Polymers'	1970
H.228	135th Annual Meeting of the British Association for the Advancement of Science, University of Kent at Canterbury, 20 August 1973  Programme of the degree congregation associated with the Meeting.	1973
H.229	Fourth International Conference on Crystal Growth, Tokyo, Japan, March 1974  1 letter only <i>re</i> arrangements.	1973
H.230	NATO Advanced Study Institute, 'Surface Effects in Crystal Plasticity', Hohegeiss, Federal Republic of Germany, 5-14 September 1975	1975



**Visits and conferences, H.170-H.307**

10 Colour photographs.

Frank delivered the concluding summary lecture.

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|--------------|--|------|
| H.231        | <p>Exchange visit to the Laboratoire de Physique des Solides, Université de Paris-Sud, Paris, France, September 1976-February 1977</p> <p>Correspondence.</p> <p>Frank collaborated with Jacques Friedel on polymers and liquid crystals.</p>  | 1976 |
| <br>         |  |      |
| H.232        | <p>6th Summer School on Crystal Growth, Boston, Massachusetts, USA, summer 1977</p> <p>1 colour photograph.</p>  | 1977 |
| <br>         |  |      |
| H.233        | <p>28th Pugwash Conference, Varna, Bulgaria, 1-5 September 1978</p> <p>Correspondence <i>re</i> arrangements and programme.</p>  | 1978 |
| <br>         |  |      |
| H.234, H.235 | <p>NATO Advanced Study Institute 'The Mechanism of Continental Drift and Plate Tectonics', University of Newcastle upon Tyne, 27 March-10 April 1979</p> <p>Programme and book of abstracts.</p> <p>2 folders.</p> <p>Frank lectured on 'Geophysical Implications of the Effects of Anisotropy on Thermoconvection.'</p> | 1979 |
| <br>         |  |      |
| H.236        | <p>Faraday Division Symposium, Annual Chemical Congress, University of Bristol, 3-5 April 1979</p> <p>Programme and abstracts of papers.</p>   | 1979 |
| <br>         |  |      |
| H.237        | <p>Visit to India, December 1979-January 1980</p> <p>1 black and white photograph of Frank, his wife and A.R. Verna.</p>   | 1980 |

**Visits and conferences, H.170-H.307**

- |             |  |      |
|-------------|--|------|
| H.238       | <p>NATO Advanced Study Institute on Physics of Defects,<br/>Les Houches, France, 28 July-30 August 1980</p> <p>Correspondence and 3 black and white photographs of<br/>Frank lecturing.</p> <p>Frank lectured on the history of defects and organised an<br/>informal session on smectics.</p> | 1980 |
| <br>        |  |      |
| H.239       | <p>British Association for Crystal Growth, Bristol, September<br/>1981</p> <p>1 black and white photograph of Frank lecturing.</p>   | 1981 |
| <br>        |  |      |
| H.240       | <p>Gordon Research Conference on Crystal Growth, New<br/>Hampshire, USA, 12-16 July 1982</p> <p>Photographs of Frank and colleagues.</p> <p>Frank lectured on 'Crystal Growth without Dislocations.'</p>   | 1982 |
| <br>        |  |      |
| H.241-H.244 | <p>Royal Society meeting on 'Dislocations and Properties of<br/>Real Materials', London, 11-12 December 1984</p> <p>See also E.143</p> <p>Frank lectured on 'Historical Perspectives and Personal<br/>Reminiscences on the Early Days of Dislocations' with<br/>Nevill Mott.</p>               | 1984 |
| <br>        |  |      |
| H.241       | <p>Correspondence <i>re</i> arrangements</p>   | 1984 |
| <br>        |  |      |
| H.242       | <p>List of delegates, draft and final programme</p>  | 1984 |
| <br>        |  |      |
| H.243       | <p>Abstracts of papers</p>   | 1984 |
| <br>        |  |      |
| H.244       | <p>Background papers</p> <p>One paper is in German.</p>  | 1984 |

**Visits and conferences, H.170-H.307**

H.245, H.246	Institute of Physics Solid-State Physics Sub-Committee, Solid State Physics Conference, Southampton University, 19-21 December 1984  Correspondence, list of participants, summary of research at Southampton, abstracts of papers and programme.  2 folders.	1983-1984
H.247	Polymer Physics conference, Reading, 11-13 September 1985  2 black and white photographs of Frank and a colleague. See also E.144	1985
H.248	British Association for the Advancement of Science meeting, Bristol, 1986  Letter inviting Frank to chair a session.	1985
H.249	Materials Research Society Symposium on Phase Transformations, place unknown, possibly the USA, c. January 1986  1 letter thanking Frank for his participation.	1986
H.250	Meeting with the US National Academy of Engineering, London, 19 May 1986  1 photograph featuring Frank and colleagues.	1986
H.251	1st International Symposium on Shaped Crystal Growth jointly held with the 4th Hungarian Conference on Crystal Growth, Budapest, Hungary, 22-25 July 1986  Correspondence <i>re</i> arrangements.  Frank was asked to attend the conference and deliver a paper but he declined.	1985
H.252, H.253	40th Anniversary of the Discovery of the Pi Meson, University of Bristol, 22-24 July 1987.	1987



**Visits and conferences, H.170-H.307**

Correspondence, programme, list of participants and information bulletin.

Also includes 1 black and white photograph featuring Rosemary Fowler, Isobel Powell and Dorothy Hodgkin.

2 folders.

H.254-H.257	ICOTOM 8th International Conference on Texture of Materials, Santa Fe, New Mexico, USA, 20-25 September 1987  Frank lectured on 'Orientation Mapping' and visited the New Mexico area.	1986-1987
H.254	Correspondence <i>re</i> arrangements and publication of papers	1987
H.255	News bulletin and programme with abstracts	1987
H.256	Photocopy of an article on 'Vinland map' sent by a colleague	1987
H.257	Photographs of Frank  3 colour photographs of Frank and a colleague.	
H.258-H.260	Materials Research Society Fall Meeting, Boston, USA, 30 November-5 December 1987  Frank was awarded the Von Hippel Award on the occasion of the conference. He lectured on 'Orientation Mapping.'	1987
H.258	1 letter only <i>re</i> arrangements.	1987
H.259	Typescript lecture notes with figures, possibly on orientation mapping.	1987
H.260	Printed programme of the meeting.	1987

**Visits and conferences, H.170-H.307**

H.261	Visit to Johannesburg, South Africa, 3-24 February 1988.  Correspondence and schedule of visits.  Frank accompanied by his wife visited colleagues and lectured.	1988
H.262-H.264	125th Annual Meeting of the National Academy of Sciences, Washington DC, USA, 24-27 April 1988  Programme; printed brochure of the National Academy of Sciences; memorabilia.  3 folders.  Frank attended the conference.	1988
H.265	Mathematical Sciences Institute workshop 'The Mathematical Analysis of Material Microstructure', Cornell University, USA, 15-18 June 1988  Correspondence <i>re</i> arrangements.  Frank declined the invitation to lecture.	1987
H.266	International Centre for Theoretical Physics 'Spring College in Material Science on Ceramics and Composite Materials', Trieste, Italy, 17 April-26 May 1989  Correspondence and news bulletin.  Frank declined the invitation to deliver five lectures.	1988
H.267	3rd International Meeting on Quasi-Crystals 'Incommensurate Structures in Condensed Matter', Vista Hermosa, Mexico 29 May-2 June 1989  Correspondence <i>re</i> arrangements.  Frank declined the invitation.	1987-1988
H.268, H.269	Anniversary Adriatico Research Conference on Cold Fusion, Trieste, Italy, 8 June 1989	1989

**Visits and conferences, H.170-H.307**

Correspondence *re* arrangements and programme.

2 folders.

Frank lectured on 'Muon-Catalyst Fusion: a Brief History.'

H.270	9th International Conference on Crystal Growth, Sendai, Japan, 20-25 August 1989	1987-1988
	Correspondence <i>re</i> attendance.	
	It is unclear whether Frank attended.	
H.271-H.275	Rutherford Appleton Laboratory, International Symposium on Muon Catalysed Fusion, Birmingham, 11-13 September 1989	1989
	Frank lectured on 'How it Began'.	
H.271, H.272	Correspondence <i>re</i> arrangements	1989
	2 folders.	
H.273	Programme and list of participants	1989
H.274	Abstract of papers	1989
H.275	Miscellaneous manuscript notes etc	1989
H.276, H.277	Jacques Friedel retirement party, Université Paris-Sud, Orsay, France, 29 September 1989	1989
	Correspondence <i>re</i> arrangement, address of Friedel (in French and English), travel schedule, invitation.	
	2 folders.	
H.278	25th Anniversary of the International Centre for Theoretical Physics, 'Frontiers in Physics, High Technology and Mathematics', Trieste, Italy, 31 October-3 November 1989	1989



**Visits and conferences, H.170-H.307**

Programme of the celebrations.

It is unclear whether Frank attended.

H.279-H.288	International Conference on Muon Catalyzed Fusion, Vienna, Austria, 27 May-1 June 1990	1989-1993
	Frank chaired the Muonic Atom Processes session.	
H.279-H.283	Correspondence <i>re</i> arrangements and colleagues' papers	1990
	5 folders.	
H.284	Programme and background information	1990
H.285-H.287	Background articles including Frank's 'An Outline of the History of Cold Fusion'	1989-1993
	3 folders.	
H.288	Memorabilia	1990
H.289, H.290	Royal Society meeting 'Science and Technological Aspects of International Security and Arms Control', London, 15 November 1990	1990
	Correspondence, programme and copies of papers delivered.	
	2 folders	
H.291	1991 Colston Symposium, 'Understanding Science', University of Bristol, 25-27 March 1991	1990-1991
	Correspondence, programme and article.	
	Frank gave the introductory address.	
H.292, H.293	Polymer Physics Conference to mark the retirement of Andrew Keller, University of Bristol, 3-5 April 1991	1991

**Visits and conferences, H.170-H.307**

Correspondence *re* arrangement, programme and general information, manuscript notes of Frank's introduction to the conference.

2 folders.

Frank gave the introductory lecture.

H.294, H.295	International Centre for Mathematical Sciences, 'Mathematical Problems in Material Science', Edinburgh, 11 October 1991	1991
	Correspondence <i>re</i> arrangements, programme of the meeting and abstracts of papers.	
	Frank lectured on 'Orientation Mapping.'	
	2 folders.	
H.296, H.297	Royal Society, Cambridge Weekend, University of Cambridge, 11-12 December 1993	1993
	Correspondence and programme.	
	2 folders.	
H.298-H.301	Royal Society discussion meeting 'Self Order and Form in Polymeric Materials', London, 14-15 December 1993	1992-1993
	Frank chaired the opening session.	
H.298	Correspondence <i>re</i> arrangements	1992-1993
H.299	Programme	1993
H.300	List of papers and abstracts	1993
H.301	List of participants	1993
H.302	Ciba Foundation/Royal Society discussion meeting on	1993

**Visits and conferences, H.170-H.307**

'The Response of Polymer Form to External Fields',  
London, 16 December 1993

Programme of the discussion.

It is unclear whether Frank attended.

H.303	East-West Surface Science Workshop 1994, 'Thin Films and Phase Transitions on Surfaces', Pamporovo Ski Centre, Bulgaria, 14-21 February 1994	1992-1994
	Correspondence <i>re</i> arrangements and travel grant.	
	The occasion was to celebrate the 85th birthday of Professor Kaischew. Frank declined the invitation because of ill health.	
H.304	Kapitza Centenary Symposium, Cavendish Laboratory, Cambridge, 8 July 1994	1994
	Correspondence, programme and invitation to dinner.	
H.305	International Symposium, Muon Catalyzed Fusion, Joint Institute for Nuclear Research, Dubna, Russia, 19-24 June 1995	1994
	Correspondence <i>re</i> arrangements.	
	Frank acted as honorary chairman of the conference.	
H.306	The Polymer Physics Committee of the Institute of Physics, Biennial Polymer Conference, London, 10-12 September 1997	1997
	1 letter only <i>re</i> arrangements.	
	Frank addressed his colleagues at the conference dinner.	
H.307	Unidentified meetings and discussions	n.d.
	Discussion transcript, correspondence and travel expenses invoice.	



**SECTION J                      CORRESPONDENCE, J.267-J.412                      1932-1998**

Although this correspondence spans Frank's whole career, from postgraduate days in the early 1930s to the late 1990s, the bulk of it is either early (1930s) or from the 1980s and 1990s - some of which postdates from after the compilation of the previous catalogue in 1989.

It is presented in alphabetical order. There are few extended sequences and most of the correspondents represented here are also to be found in the previous catalogue, in conjunction with which this correspondence presented here should be consulted. There is significant additional material for R.V.Jones, F.R.N. Naborro and K. Wirtz.

J.267	Ab.-Al.	1938-1991
J.268	Allibone, T.E.	1946, 1983-1984
J.269	Altmann, S.L.	1987, 1994
J.270	Am.-Ar.	1939-1996
J.271	Arnautov, M.L.  <i>Re paradoxes.</i>	1997
J.272, J.273	Ashbee, K.H.G.  Ashbee was a materials scientist who was a colleague of Frank's at Bristol.	1984-1992
J.272	Career	1984-1992
J.273	Scientific correspondence	1988

**Correspondence, J.267-J.412**

J.274	As.-At.	1933, 1997
J.275	Baddeley, O.  Typescript recollections, with manuscript notes by Frank	1994
J.276	Ba.	1932-1995
J.277	Banks, W.H.  <i>Re</i> saturation theory.	1937
J.278	Bassett, D.C.  Personal and scientific correspondence.  Bassett was Professor of Physics at the University of Reading.	1985-1996
J.279	Be.-Bu.	1936-1995
J.280, J.281	Bilby, B.A.  The bulk of this material is papers and drafts by Bilby sent to Frank for comment.  Bilby worked in the Metallurgy Departments of the Universities of Birmingham and later Sheffield	1950-1988
J.280	1950-1955  Drafts on crystal twinning 1950, and Non-Riemannian geometry.	
J.281	1986-1988  <i>Re</i> Royal Society Biographical Memoir of J.D. Eshelby. Includes typescript draft.	

**Correspondence, J.267-J.412**

J.282	Cahn, J.W.	1984-1997
	Invitations, comments on paper, social correspondence.	
	Cahn was a Senior Fellow at the US National Bureau of Standards.	
J.283	Ca.-Ch.	1985-1995
J.284	Chandrasekhar, S.	1980-1997
J.285	Chernov, A.A.	1984, 1994
	Includes scientific correspondence on ice growth.	
J.286	Chinnery, M.A.	1965
	<i>Re</i> Chinnery's work on distant uplift associated with strike slip faulting. Includes Frank's manuscript calculations.	
	Chinnery was based at the University of British Columbia.	
J.287	Cladis, P.E.	1983-1985
	Chiefly <i>re</i> career.	
	Cladis worked at the Bell Laboratories, Murray Hill, New Jersey.	
J.288	Cl.-Co.	
J.289	Co.	1936-1995
J.290	Cr.	
J.291	Da.	1940, 1990-1994



**Correspondence, J.267-J.412**

J.292	Davies, M.  Includes social correspondence.	1984-1994
J.293	Debye, P.	1935, 1936
J.294	<i>Re</i> Delbrück, M.L.H.	1981
J.295	De., Di.	1938-1992
J.296	Ditchburn, R.W.  Includes typescript draft by Ditchburn casting doubt on the nuclear winter concept; posthumous correspondence.	1977-1987
J.297	Do.-Du.	1934-1987
J.298	Ea.	1967, 1992, n.d.
J.299	Edge, R.  <i>Re</i> Earth tilt.  Edge was based at the Institute of Oceanographic Sciences, Birkenhead.	1976
J.300	El.-Ev.	1936-1994
J.301	Evans, T.  Evans was Professor of Physics at the University of Reading.	1983-1996
J.302	Farrell, C.J.  Personal news.	1987

**Correspondence, J.267-J.412**

J.303-J.306	Fisher, J.C.	1983-1991
	Correspondence and papers, including Fisher's 'Particle Theory Countdown' papers 1-15 in which he gave an ongoing account of his efforts to have his theories on particle theory published.	
	4 folders.	
	Fisher was an American colleague researching particle theory.	
J.307	Fi.-Fu.	1932-1991
J.308	Forty, A.J.	1985, 1991
	<i>Re</i> career.	
J.309, J.310	Friedel, J.	1969-1991
	Friedel was a longstanding colleague and friend of Frank's from the Laboratoire des Physique des Solides, Université Paris Sud.	
J.309	1969	
	Chiefly Frank's comments on 'Lignes de dislocation dans les cholesteriques' by Friedel and M. Kléman, including his manuscript notes.	
J.310	1976, 1988, 1991	
J.311	Fumi, F.G.	1985-1991
	Fumi worked at the University of Genoa.	
J.312	Gates, D.J.	1987
	Draft of paper on two-dimensional crystals sent to Frank for comment, with Frank's and D.M. Sadlers' comments thereon.	

Correspondence, J.267-J.412

J.313	Ga.-Ge.	1934-1991
J.314	Gi.	1934-1985
J.315	Go.	1975-1995
J.316	Gr.-Gu.	1938-1991
J.317	Ha.	1934-1996
J.318	Hall, E.O.  <i>Re Hall's work on tensile properties of mold steel, with typescript draft by Hall, sent to Frank for comment.</i>	1950-1951
J.319	He.  1941 letter is from Frank to his MP, A.P. Herbert, complaining at Ministry of Information coverage of the fall of Benghazi in April.	1941, 1988-1995
J.320	Hi.	1985-1994
J.321	Higasi, K.  <i>Re solvent effect.</i>  Higasi wrote to Frank from the Institute of Physical and Chemical Research, Tokyo, Japan.	1936-1937
J.322	Hoffman, J.D.  Scientific correspondence.	1962-1991



**Correspondence, J.267-J.412**

J.323	Hollomon, J.H.	1983-1991
	Chiefly posthumous material relating to memorials and tributes to Hollomon, who died in 1985.	
J.324	Ho.	1947-1997
	Includes correspondence with Philip Howard, Literary Editor of <i>The Times</i> re use of grammar in that newspaper.	
J.325	Hs.-Hu.	1985-1994
J.326	I., J.	1964-1995
J.327	Jackson, W.	1933-1939
	Correspondence re joint research and visit to Frank in Berlin.	
	Jackson was an early research colleague of Frank's.	
J.328-J.330	Jones, R.V.	1938-1997
	Jones was a long-standing colleague and friend of Frank's. They served together in scientific intelligence in the Air Ministry during World War Two.	
J.328	1938-1940	
	Includes pre-war correspondence on German radar installations, under the name of 'ghosts'; personal correspondence; and work for the Air Ministry.	
J.329	1961-1990	
	Correspondence on various topics, including reminiscences of wartime work.	
J.330	1992-1997	

**Correspondence, J.267-J.412**

Correspondence on various topics, including reminiscences of wartime work and personal news.

J.331	Ka.-Ke.	1937-1995
J.332	Keller, A.  Chiefly <i>re</i> Keller's retirement.	1989-1998
J.333	Ki.-Kl.	1976-1995
J.334	King-Hele, D.  <i>Re</i> submissions to <i>Notes and Records of the Royal Society</i> .	1994-1995
J.335	Kléman, M.  Kléman was based at the Université de Paris-Sud Laboratoire de Physique des Solides.	1977-1992
J.336-J.338	Knight, C.A.  Personal news, progress of Knight's research on anti-freeze/anti-melt.  Knight was based at the US National Center for Atmospheric Research, Boulder, Colorado	1988-1997
J.336	1988-1989	
J.337	1989	
J.338	1993-1997	
J.339	Kn.-Ko.	1950-1996

**Correspondence, J.267-J.412**

J.340, J.341	Koptsik, V.A.  2 folders.  Koptsik was a Professor of Physics at Moscow University.	1993-1994
J.342, J.343	Kramish, A.  Chiefly correspondence <i>re</i> P. Rosbaud and the German atomic programme during World War Two.  2 folders.	1993-1997
J.344	Kr.-Ku.	1981-1994
J.345	La.	1936-1993
J.346	Lang, A.R.  Lang was a colleague in the Bristol Physics Department.	1987-1998
J.347	Le.-Lu.	1932-1994
J.348	Mac.	1977-1992
J.349	Mackley, M.  <i>Re</i> career.	1986-1997
J.350	Ma.	1934-1994
J.351	Mason, B.J.  <i>Re</i> paper by Mason.	1991-1992



Correspondence, J.267-J.412

J.352	Me.-Mi.	1932-1997
J.353	Miles, M.J.  Work on extension of a polymer molecule in an elongational flow field.  Miles worked at the Agricultural and Food Research Council's Institute of Food Research, Norwich.	1987
J.354	Mo.-Mu.	1987-1995
J.355, J.356	Moore, A.M.  Moore was based at the Department of Physics, Royal Holloway College, University of London.	1973-1996
J.355	1973-1990  Includes correspondence <i>re</i> research on intersecting cylinders (1985)	
J.356	1995-1996  Includes correspondence <i>re</i> fibre geometry and distribution.	
J.357	Mott, N.F.  Includes material <i>re</i> Mott's 80th birthday celebrations, see also A.465.	1963-1995
J.358	Moullin, E.B.  <i>Re</i> research activities.  Moullin, at the Engineering Laboratory, University of Oxford, supervised Frank's research in the early 1930s.	1933-1939
J.359, J.360	Nabarro, F.R.N.	1964-1996

**Correspondence, J.267-J.412**

Nabarro was a South African-based colleague, who had worked with Frank at Bristol in the 1940s.

J.359 1964, 1985-1986

Includes correspondence *re* Penrose patterns; personal news.

J.360 1987-1996, n.d.

Includes correspondence *re* E. Orowan, of whom Nabarro was writing the Royal Society Biographical Memoir.

Undated material is guestlist for 'Dinner for Professor Charles Frank'. The guests include University of Witwatersrand figures but also Black African notables.

J.361-J.364

Nelson, J.T.

1993-1996

Nelson was a postgraduate researcher at the University of Washington in Seattle when he wrote to Frank regarding ice growth in 1993. This initiated a correspondence on the formation of growth shapes that continued to 1996. Many of the letters include detailed calculations.

J.361 1993 March-May

J.362 1993 June-August

J.363 1994

J.364 1995-1996

J.365 Ne.-Ni.

1983-1993

J.366 No.-Ny.

1980-1989

Includes Frank's contribution to book by B. Noakes, *I saw*

**Correspondence, J.267-J.412**

*a Ghost.*

J.367	O.	1985-1995
J.368	Pârasnis, A.S.  Chiefly personal and family news.  Pârasnis had studied under Frank at Bristol.	1963-1996
J.369	Pa.-Pe.	1934, 1972-1992
J.370	Pi.	1941-1985
J.371	Pl.-Po.	1984-1993
J.372	Pond, R.C.  Includes correspondence <i>re</i> Pond's work on interfacial structure.  Pond was based at the University of Liverpool Department of Metallurgy and Materials Science. He made regular visits to Bristol to demonstrate and discuss his work with Frank.	1985-1995
J.373	Ponomarev, L.	1991-1994, n.d.
J.374	<i>Re</i> Powell, C.F.  Includes 11pp photocopy typescript autobiographical account by Powell.	1985, n.d.
J.375	Pr.	1991, 1992
J.376	Ra.	1939-1987



Correspondence, J.267-J.412

problem.

- |       |  |                     |
|-------|--|---------------------|
| J.387 | Si.  | 1935, 1939,<br>1987 |
| J.388 | Sillars, R.W.<br><br>Includes account of Edward VIII's abdication sent to Frank while in Germany.  | 1936-1937           |
| J.389 | Slechta, J.<br><br><i>Re</i> career.   | 1983-1995           |
| J.390 | Sl.-Sp.  | 1939-1996           |
| J.391 | Steiner, V.C. Frank-<br><br>Correspondence <i>re</i> Farm Hall transcripts, P. Rosbaud and M. von Laue.<br><br>Frank-Steiner was the nephew of P. Rosbaud.   | 1994-1995           |
| J.392 | St.-Su.  | 1938-1994           |
| J.393 | Tabor, D.<br><br>Includes 1989 correspondence <i>re</i> claim of B.V. Derjaguin to have published findings on cold fusion at room temperature before Pons and Fleischmann.   | 1971-1993           |
| J.394 | Ta.-To.  | 1986-1995           |
| J.395 | Thomas, E.L.<br><br>Papers and ideas on disclinations sent to Frank for comment, with correspondence arising.<br><br>Thomas was Head of Polymer Science and Engineering at the University of Massachusetts at Amherst. | 1986-1990           |

Correspondence, J.267-J.412

J.396	Thomas, J.M.	1973-1991
J.397	Tu.-Ty.	n.d., 1984, 1994
J.398	U.	1936-1990
J.399	Va.-Vo.	1985-1988
J.400, J.401	Voigt-Martin, I.G.	1986-1988
J.400	1986, 1988	
J.401	1987  'Direct high-resolution images of defects in smectic polymer liquid crystals', by Voigt-Martin and H. Durst.  Sent to Frank for comment, with letter from Frank with detailed observations on the draft.	
J.402	Wa.	1935-1993
J.403	Walker, M.  Includes correspondence <i>re</i> audiotaped interview with Frank.  Walker was a researcher in history of science, studying German nuclear research 1938-1961.	1984-1992
J.404	We.-Wi.	
J.405	Wilson, T.  Includes draft outlines of chapters of book, sent to Frank	1994, 1995

**Correspondence, J.267-J.412**

for comment.

Wilson was writing a book on Lord Cherwell and World War Two.

J.406	Windle, A.H.	1986-1997
	Includes correspondence <i>re</i> Royal Society Discussion Meeting on Polymeric Materials, 1993 (see H.298-H.301).	
	Windle was Professor of Materials Science at Cambridge.	
J.407, J.408	Wirtz, K.	1937-1990
	Before the war Wirtz was based at the Kaiser Wilhelm Institut für Physik, Berlin, where he met Frank as a visiting researcher. After the war he was based at the Max Planck-Institut für Physik, Göttingen.	
J.407	1937-1939	
	Correspondence <i>re</i> progress of research, invitation to Wirtz to attend Faraday Society meeting in the autumn of 1939.	
J.408	1945, 1949, 1984, 1990	
	1984 correspondence is chiefly <i>re</i> German wartime atomic research.	
J.409	Wo.-Wy.	1935-1994
J.410	Y., Z.	1949-1990
J.411	First names and illegible	1933-1994, n.d.
J.412	Miscellaneous social invitations	



<b>SECTION K</b>	<b>REFERENCES AND APPOINTMENTS, K.63-K.110</b>	<b>1952-1996</b>
<b>K.63-K.67</b>	<b>EXAMINING</b>	<b>1952-1992, n.d.</b>
<b>K.63-K.66</b>	<b>Higher degrees</b>	<b>1952-1992, n.d.</b>
K.63	1952	
K.64	1956	
K.65	1992	
K.66	N.d.	
<b>K.67</b>	<b>External examining</b>	<b>1975</b>
K.67	University of Ghana	1975
<b>K.68-K.86</b>	<b>APPOINTMENTS</b>	<b>1964-1996</b>
K.68	1964	
K.69	1969	
K.70	1979	
K.71	1980	
K.72	1983	

**References and appointments, K.63-K.110**

K.73 1984

K.74 1984-1985

K.75 1985

K.76 1986

K.77 1987

K.78 1988

K.79 1989

K.80 1990

K.81 1991

K.82 1992

K.83 1993

K.84 1994

K.85 1995

K.86 1996

**References and appointments, K.63-K.110**

<b>K.87-K.94</b>	<b>GRANT APPLICATIONS</b>	<b>1956-1995</b>
K.87	1956	
K.88	1964	
K.89	1979	
K.90	1983	
K.91	1984-1985	
K.92	1992	
K.93	1993	
K.94	1994-1995	
<b>K.95-K.109</b>	<b>HONOURS AND AWARDS</b>	<b>1969-1996</b>
<b>K.95-K.101</b>	<b>Royal Society</b>	<b>1984-1995</b>
K.95	1984-1985	
K.96	1986-1987	



**References and appointments, K.63-K.110**

K.97 1988

K.98 1993

K.99 1994-1996

K.100 1994

K.101 1995

**K.102-K.109 Other honours and awards 1969-1996**

K.102 1969-1970

K.103 1980-1981

K.104 1986-1987

K.105 1987

K.106 1988

K.107 1990-1991

K.108 1994

K.109 1996

**References and appointments, K.63-K.110**

<b>K.110</b>	<b>MISCELLANEOUS</b>	<b>Mid 1980s</b>
K.110	Reference.  Undated, probably mid 1980s.	

**DM 1837**  
**Sir Charles Frank**  
**Medals, awards, and academic hoods**

These were given by Lady Frank. They complement the archival material which is being catalogued by the National Cataloguing Unit for the Archives of Contemporary Scientists at the University of Bath.

<b>Academic Hoods</b>	State University of Gent/Rijksuniversiteit Gent Box Contains three academic hoods	
	Blue and gold	
	Red and green	
	Yellow and blue with white fur (University of Gent, Belgium)	
<b>Printed materials</b>		
	Book presented to Frank on his retirement as Head of the Department of Physics, University of Bristol Includes the names of people throughout the University	31 July 1976
	Illustrated brochure relating to the Royal Academy of Sciences	1980
	Programme: University of Bristol: Concert and Degree Congregation to mark 40th Anniversary of the Bristol-Hanover Link	16 June 1987
	80 <sup>th</sup> Birthday Symposium Programme and sketches of speakers, by Jerry Hicks	15 April 1991
	Sir Charles Frank, OBE, FRS: an eightieth birthday tribute Edited by RG Chambers, JE Enderby, A Keller, AR Lang and JW Steeds, Printed book, with ornate binding, in green slipcase  4 photographs taken by Professor Okien (?), Tokyo of 15 April 1991 event  Review of book in Nature, by Robert W Cahn, Vol 351, 13 June 1991  Letter from Michael (nephew of Frank) to Frank concerning the Fibanacci series and family affairs, 15 July 1991	1991
	Dinner at the Guildhall, Portsmouth to celebrate the 50 <sup>th</sup> Anniversary of the D-Day Landings Frank attended, menu and arrangements	4 June 1994
<b>Medals</b>		
	Sigill. Mai. Acad. Gandavensis Also Intervtrvmqve In paper case, with Bruxelles address	9 May 1955
	Sigill. Mai. Acad. Gandavensis Also Intervtrvmqve Doctor Honoris Causa Der Rijkuniversitiet te Gent Bronze, in paper case	3 Oct. 1955
	La Societe Francaise de Physique, Howleck Prize, Bronze medal in green case	1963
	The Materials Science Club, sponsored by Rolls-Royce The AA Griffith Medal Silver coloured in blue case	1967
	Medal to celebrate the 100 <sup>th</sup> anniversary of the	1969



	Bulgarian Academy of Sciences, 1869-1969 In Cyrillic script	
	American Association for Crystal Growth: Presented to Sir Charles Frank for his outstanding contribution to the field of crystal growth Rose pink glass paperweight with gold plaque, in black case	18 July 1978
	The Institute of Physics: Frederick Guthrie, 1833-1886 Probably gold, black case, Royal Mint	1982
	The Metallurgical Society of AIME: Institute of Metals Division: Lecturer and Robert Franklin Mehl Medalist Bronze medal in black case	1987
	Von Hippel Award of the Materials Research Society, presented to Sir Charles Frank 'Lucite' block, in presentation box	1987
	Royal Society Medal Probably gold, in Latin, black case, Royal Mint	n.d.

My note says that Lady Frank kept the Royal Swedish Academy Medal (gold) and the Royal Society Gold Medal, 11 June 1902

Hannah Lowery  
9 September 2003

**INDEX OF CORRESPONDENTS**

ABRAHAM, Sir Edward Penley	J.267
ADAMS, Brent L.	J.267, J.377
AGOSTON, Buolo	J.267
ALBON, Norman	J.267
ALLEN, Sir Geoffrey	J.267
ALLIBONE, Thomas Edward	J.268, J.314
ALTMANN, Simon L.	J.269
AMELINCKX, Severin	C.298, C.299, J.270
AMERICAN INSTITUTE OF PHYSICS	J.402
ANDERSON, Eric	J.270
ANDRADE, Edward Neville da Costa	J.270
ANDREWS, E.H.	J.270
ANDREWS, Margaret L.	D.319
APHRAHAMIAN, Francis	D.319
APLEY, M.	J.270
ARMAMENT RESEARCH AND DEVELOPMENT ESTABLISHMENT	F.381
ARNAUTOV, Michael L.	J.271
ARNOLD, Lorna	J.270
ARTHUR, Anne	J.270
ASHBEE, Kenneth Harold George	J.272, J.273
ASSOCIATION OF SCIENTIFIC WORKERS	F.382, F.383
ASTA, Bernhard R. DALL'	J.274
ASTBURY, William Thomas	J.274
ATYIAH, Sir Michael	D.362, D.374
ATKINS, Edward D. T.	J.274
ATOMIC SCIENTISTS ASSOCIATION	F.384

Index of correspondents

AUDIO-LEARNING LTD	F.385
BADDELEY, Olive	J.275
BAETA, Bob	J.276
BAGLIN, John E.E.	J.276
BALL, John	E.518
BANGHAM, D.H.	J.276
BANKS, W.H.	J.277
BARRON, Thomas Hugh Kenneth	J.276
BARRY, T.I.	C.339
BASSETT, David Clifford	A.280, J.278
BENHAM, W.S.	J.279
BENNEMA, P.	J.279
BENNETT, Rosalind	J.279
BILBY, Bruce Alexander	C.279, C.320, J.280, J.281
BIQUARD, P.	D.331, D.332
BLACKABY, Frank	J.279
BLEANEY, Brebis	J.279
BOLZENIUS, [?]	J.279
BONFIELD, William	J.279
BOYES, P.L. GAI-	J.313
BRAGG, Sir William Lawrence	E.107, H.186
BRAUN, Ernst	J.279
BRISCOE, H.V.A.	J.279
BRISTOL MUNICIPAL CHARITIES	F.386, F.387
BRISTOL SCIENTIFIC CLUB	F.388
BRITISH AIRCRAFT CORPORATION	G.131
BRITISH RAILWAYS	G.132



Index of correspondents

BROOKS, Harvey	C.325 J.279
BROOM, Trevor	J.279
BROWN, A.F.	J.279
BUNN, Charles William	C.248
BURHOP, Eric Henry Stoneley	D.319, D.320
CABRERA, Nicholas	C.253, F.403, F.404, F.410
CAHN, John W.	A.257, A.280, J.282
CAHN, Robert Wolfgang	C.278, J.283
CAMBRIDGE UNIVERSITY PRESS	D.342
CANNON, Cyril George	B.155
CARGILL III, G. Slade	J.283
CARLETON, Don	J.283
CARTWRIGHT, David Edgar	J.283
CAVENEY, Robert J.	J.283
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	G.133
CHADWICK, G.A.	F.451
CHALMERS, Bruce	J.283
CHAMBERS, R. G	A.117
CHANDRASEKHAR, Sivaramakrishna	A.283, J.284
CHEMICAL SOCIETY	F.389
<i>CHEMISTRY AND INDUSTRY</i>	C.345
CHERIAN, Kuruvilla A.	J.283
CHERNOV, A.A.	J.285
CHINNERY, M.A.	J.286
CHRISTIAN, Jack Wyrill	J.283
CLADIS, Patricia Elizabeth	J.287

**Index of correspondents**

CLOSE, Frank	J.288
COGHILL, Nevill Henry Kendal	J.288
COLBECK, Samuel C.	J.288
COLES, Harry James	J.288
COLLAR, Arthur Roderick	B.154, J.289
COLSTON RESEARCH SOCIETY	B.310-B.324
COTTRELL, Sir Alan Howard	J.280, J.289
COTTRELL, John	J.289
COVENTRY REPERTORY COMPANY	J.289
COX, Sir (Ernest) Gordon	H.178, J.289
CRAMPIN, Stuart	J.290
CRUIKSHANK, Austin James Bruce	J.290
DALITZ, Richard Henry	J.383
DANYZ, M.	D.319
DAUNT, J.G.	J.291
DAVIES, John D.	J.291
DAVIES, Mansel	J.292
DAVIS, Edward A.	D.410
DAWSON, J. M.	C.298
DE BEERS	G.134-G.174
DEBYE, Paul	J.293
DELBRÜCK, Max Ludwig Henning	D.319, J.294
DENTON, Sir Eric James	J.295
DERJAGUIN, Boris Vladimirovich	J.393
DITCHBURN, Robert William	C.299, J.296
DIXON, Bernard	D.288
DIXON, Richard	J.295

Index of correspondents

DUMERT, P.	J.297
DZHELEPOV, V.P.	C.358
EADES, John Alwyn	J.298
EASTWOOD, W.S.	J.298
EATON, Frederik S.	J.298
EDGE, R.	J.299
ELLIOTT, Sir Roger James	J.300
ELTON, Lewis Richard Benjamin	J.300
ENDERBY, John Edwin	J.300
ERICKSEN, Jerry L.	J.300
ERRERA, Jacques	J.300
ERSKINE, Vivienne	J.300
ESHELBY, John Douglas	See J.281
EUROPEAN PHYSICAL SOCIETY	F.393
EVANS, Trevor	J.301
EVANS, Ulick Richardson	C.248
EVANS, W.G.	J.300
FARADAY SOCIETY	C.248, C.249, F.394
FARRELL, Christopher J.	J.302
FIBREGLASS LTD	G.175
FIELD, John E.	G.135
FISCHER, Erich	J.307
FISHER, John Crocker	J.303-J.306
FISHER, R.M.	C.254
FLINT, Einar P.	C.345, J.307



**Index of correspondents**

FOOT, Michael Richard Daniell	J.307
FÖRSTER, Th.	J.307
FOWLER, Mary	J.307
FOWLER, Sir Ralph Howard	J.307
FORTY, Arthur John	J.308
FRANCE	
MINISTRY OF NATIONAL EDUCATION	J.307
FRANK, Lady Maita	H.210
FRANKS, James	C.253
FRASER, Ronald	J.307
FREEMAN, Richard F.	J.307
FREEZE	J.307
FRIEDEL, Jacques	A.282, J.309, J.310
FRÖHLICH, Herbert	D.319, J.307
FUJITA, Hiroshi	C.270
FULLMAN, Robert L.	J.307
FUMI, Fausto Gherardo	J.311
GALT, John Kirtland	J.313
GANZ, Peter Felix	D.370
GATES, David J.	J.312
GATTY, Oliver	C.214, C.215
GAYLE, Frank W.	J.313
GEACH, George Alwyn	C.249
GEMANT, ?A.	J.313
GENERAL ATOMIC	G.176
GENERAL ELECTRIC	G.177
GENNES, Pierre-Gilles de	J.313

**Index of correspondents**

GIBBS, David Fortnam	C.325, J.314, J.386
GIELGUD, Sir (Arthur) John	J.314
GIFFORD, Henry	J.314
GILLESPIE, Marjorie	J.314
GLEN, John Wallington	C.254
GOLDANSKII, Vitalii I.	J.315
GOLDBART, Paul M.	J.315
GOLDENFELD, Nigel	J.315
GOREAU, Peter	J.315
GRAY, George William	J.316
GREAT BRITAIN AND NORTHERN IRELAND	
DEPARTMENT OF EDUCATION AND SCIENCE	F.390
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH	F.391, F.392
HOME OFFICE	F.395-F.397
MINISTRY OF DEFENCE	D.323, F.425, F.426
MINISTRY OF SUPPLY	F.427, F.428
GREEN, H.	J.316
GREEN, Vivian Hubert Howard	J.316
GREGORY, Bernard P.	D.319
GREGORY, Richard Langton	J.316
GREENWOOD, Geoffrey	J.316
GRIFFIN, Joe	C.298
GRIFFIN, L.J.	C.248-C.250
GRIGGS, David Tressel	D.311
GUGGENHEIM, Edward Armand	J.316
GUTMAN, Ivan	J.316
GUTZOW, I.	J.316

Index of correspondents

HAGGETT, Peter	J.317
HAINE, M.E.	J.317
HALL, E.O.	J.318
HALL, H. Warburton	J.402
HAMPSON, G.L.	J.317
HAMPTON, Susan	J.317
HARRIS, Jack E.	J.317
HART, Michael	J.317
HAWORTH, Lionel	J.317
HAYES, William	J.294
HEAD, Alan	J.319
HEILBRONN, Hans Arnold	D.278, D.279
HEINEY, Paul	J.319
HEITLER, Walter	D.319, D.320
HELE, Desmond KING-	D.407, J.334
HENISCH, Heinz K.	C.324
HENSHAW, Denis L.	J.319
HERBERT, Sir Alan Patrick	J.319
HERENGUEL, J.	C.277
HESKETH, Ross Vernon	J.319
HEYDENREICH, Johannes	J.319
HIDE, Raymond	J.320
HIGASI, Keniti	J.321
HILDITCH, T.P.	C.222, C.223
HINTON, Howard Everest	B.153
HIRSCH, Sir Peter B.	H.241



**Index of correspondents**

HIRTH, John P.	J.320
HODGKIN, Dorothy Mary Crowfoot	J.290
HOFFMAN, John Drake	J.322
HOLLAND, W.P.	J.324
HOLLOMON, John Herbert	C.298, J.323 See also J.381
HONEYCOMBE, Sir Robert William Kerr	J.324
HOOK, Andrew van	C.251
HOPKINS, Harold Horace	J.301
HORN, F. Hubbard	C.252
HORTON, A. Trobridge	J.324
HOUGHTON, Sir John Theodore	J.324
HOWARD, Philip	J.324
HSU Chung-Chi	J.325
HUBBELL, Harry H. Jr;	C.298
HUMPHREYS, David	J.325
HURLE, Donald Thomas James	D.359, J.325
HUSH, Noel	J.325
HUXLEY, Jocelyn Richenda Gammell, Lady	J.325
IMPERIAL CHEMICAL INDUSTRIES	B.156, B.157, B.158-B.165, G.178
INSTITUTE OF PHYSICS	D.363-D.367, D.346, F.398-F.400
INSTITUTION OF STRUCTURAL ENGINEERS	C.324
INTERNATIONAL BUSINESS MACHINES	G.179
INTERNATIONAL ORGANIZATION FOR CRYSTAL GROWTH	F.401-F.419
IRWIN, George R.	J.326
JACKSON, J.D.	C.358

Index of correspondents

JACKSON, Willis, Baron	A.159, J.327
JARIC, Marko V.	J.326
JENNINGS, Reginald	J.326
JENNINGS, Rosamund	J.326
JONES, D. Arthen	C.246
JONES, Sir Owen Haddon WANSBROUGH-	J.402
JONES, Reginald Victor	A.144, C.231 C.345, D.369, D.372, F.457, H.279, J.328-J.330, J.342, J.391
<i>JOURNAL OF CRYSTAL GROWTH</i>	D.475
<i>JOURNAL OF GLACIOLOGY</i>	D.338
<i>JOURNAL OF MATERIALS SCIENCE</i>	D.476
KALEJS, Juris P.	J.331
KAMIMURA, Hiroshi	J.331
KAPITZA, Pyotr Leonidovitch	D.331, D.332
KEITH, Harvey Douglas	J.331
KELLER, Andrew	A.282, J.332
KELLY, Anthony	J.331, J.356
KEOHANE, Kevin William	J.331
KEYES, F.G.	J.331
KING, Geoffrey Charles Plume	J.333
KING, Peter	J.333
KINGMAN, Sir John Frank Charles	J.333
KITTEL, Charles	J.333
KLÉMAN, Maurice	J.309, J.335
KLOTZ, Irving	D.405
KLUG, Sir Aaron	J.333
KNIGHT, Charles Alfred	J.336-J.338

**Index of correspondents**

KNIGHT, P.L.	J.339
KOBAYASHI, Shunsuke	J.339
KOCHENDÖRFER, A.	J.339
KOCHS, Marianne	J.339
KÖHLER, Karin	J.339
KOHN, Walter	C.323, J.339
KOPSTIK, Vladimir Alexandrovich	J.340, J.341
KRAMISH, Arnold	D.405, J.342, J.343
KRONBERG, Marritt L.	C.324
KRUMHANSI, James A.	J.344
KUO, K. H.	J.344
KURTI, Nicholas	D.362, D.370, D.372, J.344
LANG, Andrew Richard	C.339, D.368, G.135, J.346
LANG, H.R.	J.345, F.403
LANGDON, A.A.M.	C.298
LAWN, Brian Ronald	J.345
LEFEVRE, R.J.W.	J.347
LESCHKE, Elisabeth	J.347
LINCOLN COLLEGE OXFORD	F.420-F.423
LINDOP, Patricia J.	J.347
LIPSON, Henry	C.324
LIVINGSTON, Jim D.	J.347
LOGAN, Jonothan L.	D.373, D.406
LOPEZ, Adair	J.347
LOWSON, Martin V.	J.347
LUDOVICI, Anthony M.	J.347



**Index of correspondents**

LUKES, Tom L.	J.347
LYTTLETON, R.A	A.283
McCONNELL, Robert	J.348
MacFARLANE, Alistair G.J.	J.348
MackAY, Alan L.	J.348
MACKLEY, Malcolm Robert	J.349
McLACHLAN, David S.	J.348
McLAUCHLIN, Keith	J.348
MacMILLAN, Jake	J.348
MADDOX, Sir John Royden	J.350
MADER, H.M.	J.350
MAJOR, John	J.350
MANSFIELD, Marc	J.350
MARADUDIN, Alexei A.	J.350
MARSDEN, Ralph J.B.	J.350
MARSHALL, Susan	J.350
MARTIN, I.G. VOIGT-	J.400, J.401
MASON, Sir (Basil) John	J.351
MERCER, Robert L.	D.319
MERRISON, Maureen, Lady	J.352
MERWE, Johannes Hendrik VAN DER	J.399
METALS SOCIETY	D.347
MICHAELS, Debra	J.352
MILES, Mervyn John	J.353
MITCHELL, Sir (Edgar) William (John)	G.135, G.137, J.352
MITCHELL, John P.	J.352

Index of correspondents

MOORE, Anthony Moreton	J.355, J.356
MOORE, Walter J.	J.354
MORRELL, Jack	J.354
MOTT, Sir Nevill Francis	A.282, C.250, C.305, C.319, C.358, J.357 See also A.465
MOULLIN, Eric Balliol	J.358
MULLIN, John Brian	D.337
MUNK, Walter Heinrich	C.323, C.325, J.286
MURALI, S.	J.354
NABARRO, Frank Reginald Nunes	C.251, D.278, D.279, H.241, J.359, J.360
<i>NATURE</i>	D.312, D.477
NEEDHAM, Angela	J.365
NELSON, Jon Thomas	J.361-J.364
NICOLAYSEN, Louis O.	J.365
NISBET, Euan G.	J.365
NISHIMURA, Hideo	C.285
NIXON, Peter H.	J.365
NOAKES, Ben	J.366
NYE, John Frederick	A.114, A.283, J.366
OERLING, Jan H.J.	D.401
OEXLE, Gerhard	J.367
OLIVA, Josep M.	J.367
OLMSTED, P.D.	J.367
OMAR, M.	C.251, C.299
OROWAN, Egon	C.325

Index of correspondents

OSWALD, P.	J.367
OWEN, Anthony J.	J.367
OWEN, S.P.F. HUMPHREYS-	C.247, C.248
PALMER, Henry Proctor	C.295
PÂRASNIS, Arawind Shripad	J.368
PARKIN, David W.	J.369
PASCOE, Ernst	J.369
PEACE, Richard A.	J.369
PEASE, Rendel Sebastian	D.368
PEIERLS, Sir Rudolf Ernst	D.372, J.369
PENROSE, Oliver	J.369
PERKINS, Donald Hill	C.358, D.321, J.369
PETLEY, H.	J.369
PHILLIPS, Charles H.	C.325
<i>PHILOSOPHICAL MAGAZINE</i>	D.355, D.478
<i>PHILOSOPHICAL MAGAZINE LETTERS</i>	D.357
<i>PHYSICS EDUCATION</i>	D.339
PIKE, Gordon	J.370
PILKINGTON BROTHERS LTD	G.180
PIPER, David	J.370
PIPPARD, Sir (Alfred) Brian	J.370
PIRENNE, Maurice Henri	J.370
PITTERI, Mario	J.370
PLANT, Ruth	J.371
POINT, J.-J.	J.371
POIRIER, Jean-Paul	J.371
POLCAROVA, Milena	J.371



Index of correspondents

POND, Robert Charles	J.372
PONOMAREV, Leonid	H.305, J.373
POWELL, Cecil Frank	J.374
POWERS, Thomas	D.368, J.371
PRATTER, Joan	J.375
PRICE, P. Buford	C.324
PRIESTER, L.	J.375
PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS	F.429-F.446
QUEEN ELIZABETH'S HOSPITAL SCHOOL, BRISTOL	F.447, J.352
RANDALL, Merle	J.376
RANDLE, Valerie	J.377
RATHENAU, G.W.	C.251
RAULT, Jacques	J.376
RAYNES, Edward Peter	J.376
READ, Michael	J.378
RECKITT HOUSEHOLD PRODUCTS	J.379
REED, Peter	J.379
RICHARDSON, R.M.	J.379
RICHTER, Achim	J.379
RICKARD, C.E.	J.379
RIDEAL, Sir Eric Keightley	J.379, J.387
RILEY, D.P.	J.379
RINGWOOD, A.E.	J.379
ROBBINS, D.J.	J.380
ROBERTSON, D.W.	J.381

Index of correspondents

ROOS, Daniel	J.381
ROSBAUD, Paul	See J.342, J.391
ROSE, Paul Lawrence	D.402-D.404, D.406, J.381
ROTLAT, Sir Joseph	D.319, D.320, D.331, D.332 See also J.381
ROTHERY, Cecil J.	J.381
ROWLAND, [?]	J.381
ROYAL SOCIETY	D.321, D.362, D.479, D.480, F.448- F.464, J.342, J.391
RUNCORN, Stanley Keith	A.281
RUOFF, Arthur L.	J.382
RUSSELL, Sir Frederick Stratten	J.382
SADLER, David M.	J.312, J.383
SAKHAROV, Andrei	J.383
SAVAGE, R.J.G.	J.275, J.383
SCHEEL, Hans J.	J.383
SCHLOESSIN, Helmut H.	J.384
SCHRAGER, G.R.	C.324
SCHRIJVER, Kees	J.383
SEAL, Michael	J.385
SEEGER, Alfred	C.358, J.386
SERIES, George William	J.296
SHEACH, Sheila	J.386
SHEPHERDSON, John C.	J.386
SIDGWICK, Nevil Vincent	J.387
SILLARS, R. William	J.388
SILLS, Dick	J.387

Index of correspondents

SIMONS, H.-S.	J.387
SLATER, R.	J.390
SLECHTA, J.	J.389
SMITH, Cyril Stanley	J.390
SMITH, Roger	J.390
SMITH, Vincent J.	J.303
SONDHEIMER, Ernest H.	J.390
SPRINGFORD, Michael	D.410
STEEDS, John	D.371
STEINER, Vincent C. FRANK-	D.405, J.391
STEVELEY, L.A.K.	J.392
STEVENS, G.C.	J.392
STEWART, Walter W.	J.392
STIGANT, S. Austen	J.392
STONEHAM, A. Marshall	J.392
STRANSKI, Iwan N.	C.249, J.392
SULTAN, F.S.A.	C.270
SUTHERLAND, Sir Gordon Brims Black McIvor	J.392
SUTTON, Leslie Ernest	A.150, D.273, J.392
SWEET, William	D.405
TABOR, David	J.393
TAKAGI, Satio	J.394
TEMPERLEY, Harold Neville Vazeille	C.309
TIMMS, Peter	J.394
TOBIAS, Phillip	J.324
THOMAS, Edwin Lorimer	J.395
THOMAS, Sir John Meurig	J.396



Index of correspondents

THOMPSON, Sir Harold Warris	D.413
THOMPSON, Norman	C.324
THOMSON, Sir George Paget	C.247, C.270
<i>THE TIMES</i>	J.324
TOLANSKY, Samuel	C.250
TOZER, David C.	J.394
TUCKETT, R.F.	J.397
TURNBULL, David	A.257, C.253, C.306, C.307
TURNER, A.J.	J.397
TYNDALL, Arthur Mannering	D.322
TYNDALL, Diana	J.397
TYNDALL, John	J.397
UBBELOHDE, Alfred Rene John Paul	J.398
UDVARHELYI, Adalbert	J.398
ULLMAN, Robert	J.398
UNITED STATES OF AMERICA	
DEPARTMENT OF ENERGY	C.358
UNIVERSITY OF ABERDEEN	F.465
UNIVERSITY OF BRISTOL	B.152-B.327
UNIVERSITY OF CALIFORNIA: INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS	G.181
UNIVERSITY GRANTS COMMITTEE	F.466
UNWIN, Paul	J.398
VERMA, Ajit Ram	J.399
VOIGT-MARTIN, I.G.	See MARTIN
VONK, C.G.	J.399

Index of correspondents

WAGNER, Carl	J.402
WALKER, David	J.365
WALKER, Mark	C.299, J.403
WANSBROUGH-JONES, O.H.	See JONES
WARD, Ian Macmillan	J.402
WARNER, Mark	J.402
WARNOW, Joan N.	J.402
WATERMAN, H.I.	J.402
WATKINS, Jeffrey Clifton	J.402
WATT, William	J.402
WEILL, Adrienne R.	C.299
WEISSKOPF, Victor Frederick	D.331, D.332
WEXLER, R.	J.404
WHALLEY, E.	J.404
WHELAN, Mike J.	J.269, J.404
WHIFFEN, David Hardy	J.404
WHITE, James	G.305
WILKINSON, Sir Denys Haigh	J.404
WILSDORF, Doris KUHLMANN-	J.344
WILSON, Roger	D.331, D.332, D.334
WILSON, Tom	J.405
WINDLE, Alan Hardwick	A.280, H.298, J.406
WIRTZ, Karl W.J.	D.372, J.407, J.408
WOODS, Geoffrey S.	J.409
WOOSTER, W.A.	D.331, D.332
WRIGHT, Edward Maitland	J.409

**Index of correspondents**

WRINCH, Dorothy Maud	J.409
WYLIE, Russell G.	C.315-C.318
WYNGAARDER, James	J.409
YOUNG, D.A.	J.410
YOUNG, Pierre Henry John	J.410
ZIABICKI, Andrzej	J.410
ZIMAN, John Michael	J.410
ZMUDA, Alfred J.	C.342, C.343
ZUCKERMAN, Solly, Baron	D.323