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Catalogue of the papers and correspondence of

**Sir (Michael) James Lighthill Kt FRS**  
**(1924-1998)**

By Peter Harper and Timothy E. Powell

NCUACS catalogue no. 175/6/09

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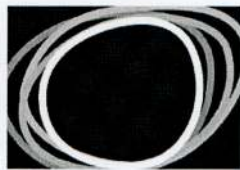
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## LIST OF CONTENTS

		Items	Page
GENERAL INTRODUCTION			
SECTION A	BIOGRAPHICAL	A.1-A.97	10
SECTION B	RESEARCH	B.1-B.177	21
SECTION C	UNIVERSITY OF MANCHESTER	C.1-C.45	27
SECTION D	ROYAL AIRCRAFT ESTABLISHMENT FARNBOROUGH	D.1-D.24	32
SECTION E	IMPERIAL COLLEGE LONDON	E.1-E.25	36
SECTION F	UNIVERSITY OF CAMBRIDGE	F.1-F.67	38
SECTION G	UNIVERSITY COLLEGE LONDON	G.1-G.66	41
SECTION H	PUBLICATIONS	H.1-H.196	46
SECTION J	LECTURES	J.1-J.130	57
SECTION K	SOCIETIES AND ORGANISATIONS	K.1-K.713	70
SECTION L	VISITS AND CONFERENCES	L.1-L.109	107
SECTION M	CORRESPONDENCE	M.1-M.496	116
SECTION N	NON-TEXTUAL MATERIAL	N.1-N.56	152
INDEX OF CORRESPONDENTS			159

## GENERAL INTRODUCTION

### PROVENANCE

The papers were received for cataloguing from Special Collections, Library Services, University College London, in October 2008.

### OUTLINE OF THE CAREER OF SIR (MICHAEL) JAMES LIGHTHILL

Michael James Lighthill was born in Paris on 23 January 1924 and educated at Winchester and Trinity College Cambridge where he took a two-year wartime BA, 1941-1943. For the rest of the war he worked on supersonic flight at the National Physical Laboratory, Teddington, in the aerodynamics division under Sydney Goldstein, publishing his first scientific paper before he was 20. Immediately after the war he was appointed senior lecturer in mathematics at Manchester under Goldstein and in 1950, still only 26, he was appointed to the Beyer Professorship of Applied Mathematics in succession to Goldstein, a position he held until 1959. Lighthill was successively Director of the Royal Aircraft Establishment, Farnborough, 1959-1964, Royal Society Research Professor at Imperial College London, 1964-1969, Lucasian Professor of Mathematics at Cambridge, 1969-1979, and Provost of University College London, 1979-1989.

Lighthill is acknowledged as one of the great mathematicians of the twentieth century. He is characterised by his obituarist D.G. Crighton (*Independent*, 22 July 1998) as 'the prototypical applied mathematician, immersing himself thoroughly in the essence and even the detail of every engineering, physical or biological problem he was seeking to illuminate with mathematical description, formulating a sequence of clear mathematical problems and then attacking them with a formidable range of techniques completely mastered, or adapted to the particular need, or newly created for the purpose; and then finally returning to the original problem with understanding, predictions, and advice for action'. This biographical account follows Crighton's obituary closely.

At Manchester Lighthill led a powerful and inventive fluid dynamics group. He had many PhD students there and during one period 17 of his former Manchester students held chairs in the UK. He worked extensively on gas dynamics, including effects important at very high speed, in his studies of ionisation processes, and the diffraction of shock and blast waves. He also launched two new fields in fluid mechanics. The first of these was aeroacoustics or sound generated aerodynamically. It was announced in a paper published by the Royal Society in 1952 and had an immediate implication for noise reduction in jet aeroengines. The second was nonlinear acoustics which Lighthill introduced in a 100-page article written in 1956 in honour of the seventieth birthday of G.I. Taylor. Its applications



include kidney-stone-crushing lithotripsy machines and, with the same mathematics, flood waves in rivers and traffic flow on highways.

At the Royal Aircraft Establishment Farnborough Lighthill was responsible for the management of an organisation with 8,000 staff including 1400 scientists and engineers. His detailed oversight included the critical examination of every report emanating from the Establishment. He worked on the aerodynamics of the slender delta wings for Concorde, on spacecraft, and on short-haul aircraft. In the early 1960s he forged links with the Post Office to develop the commercial use of television and communications satellites. At Imperial College London he began his development of mathematical biofluidynamics: the quantitative understanding of the flow of blood in mammalian cardiovascular systems, of air in the human airways, and of the flying of birds and insects and the swimming of fish. At Cambridge he undertook major teaching commitments and expanded still further his range of research interests: control systems; active control of sound; waves; oceanography and atmospheric dynamics, including monsoon prediction and propagation; and on biological mechanics at the microscopic level. At University College London he was involved in much fundraising, in new College developments especially in biology and biotechnology and in expanding the representation of women at senior levels; while continuing his scientific interests: the unpredictability of large systems; wave energy extraction devices; and the human auditory system.

In addition to the offices he held and his own scientific research Lighthill undertook many advisory and leadership roles in respect of public and professional bodies in Britain and internationally. Unhappy with the support in national societies for applied mathematics he founded the Institute of Mathematics and its Applications, serving as its first President, 1965-1967. He took a serious interest in mathematical education at all levels, elected as President of the Mathematical Association in 1970 and serving as President of the International Commission on Mathematical Instruction, 1971-1974. One of his more controversial assignments was initiated in September 1971, when the Chairman of the Science Research Council, B.H. Flowers, asked 'whether he would be prepared to make a considered appreciation of the subject of artificial intelligence, its achievements, its practitioners, its promise and its needs' as an aid to policy formulation. The International Union of Theoretical and Applied Mechanics was a major commitment and he served as President of the Union, 1984-1988. After retirement he took up the Chairmanship of the International Council of Scientific Unions (ICSU) Special Committee on the International Decade for Natural Disaster Reduction (SC-IDNDR), and travelled and lectured worldwide.

Lighthill's achievements were widely recognised. He was elected FRS in 1953 (Royal Medal 1964, Copley Medal 1998; Bakerian Lecture 1961, Humphrey Davy Lecture 1991), and was knighted in 1971. He received many honorary degrees, prizes and medals and was elected to the foreign membership of leading academies.



In 1945 he married Nancy Dumaesq with whom he had a son and four daughters. He died on 17 July 1998 while swimming in the Channel Islands.

## DESCRIPTION OF THE COLLECTION

The papers cover the period 1940-2000.

Section A, Biographical, presents obituaries and tributes, biographical accounts and bibliographies, three volumes of notes on mathematics that Lighthill began in November 1940 before he went to Cambridge as a student and a sequence of appointment diaries from Lighthill's period as Lucasian Professor of Mathematics at Cambridge, 1969-1979, and his 1989 'desk diary' at University College London. The largest series of papers relate to Lighthill's many honours and awards including certificates in a variety of formats, 1953-1996.

Section B, Research, covers the period 1956-1995 and comprises the contents of Lighthill's containers: folder, box folder, filing cabinet divider, etc. organised alphabetically by title of container. The contents may include manuscript notes and drafts, manuscript working, offprints by Lighthill and others, and correspondence. Topics include aerodynamic aspects of animal flight, aquatic animal locomotion, biofluidynamics, 'early fish work' and flagellar hydrodynamics. The assignment of much of this material to 'Research' is tentative since many of the containers contained papers relating to publications, lectures, visits and conferences, etc.

Section C, University of Manchester, is not extensive, providing records of Lighthill's teaching for about ten years from 1949 to 1959, though much of the material is undated. The material is predominantly Lighthill's manuscript notes and drafts for courses such as mechanics, methods of mathematical physics, fundamentals of thermodynamics and magnetohydrodynamics and plasma physics.

Section D, Royal Aircraft Establishment, Farnborough, presents Lighthill's 'Personal and Confidential' correspondence as Director, 1959-1964, the transcript of a 1962 lecture by Lighthill to the Chemistry and Metallurgy and Physics Departments and a number of technical memoranda and reports prepared by the Director.

Section E, Imperial College London, is small, documenting Lighthill's Royal Society Research Professorship there (including announcement and terms of appointment, research reports and budgets), the Physiological Flow Studies Unit with which Lighthill collaborated, principally the contents of Lighthill's 'Origins of PFSU' folder, a little teaching material (physics and mathematical topics for physiologists and doctors interested in research) and Lighthill's Farewell Lecture.



Section F, University of Cambridge, is predominantly teaching material for courses on aerodynamic sound generation, biological fluid dynamics and mathematical methods. There are also papers relating to the campaign for changes in statutes at Trinity College, which led to the admission of women, and to a proposed Cambridge University swimming pool.

Section G, University College London, comprises documentation of institutional planning during Lighthill's Provostship, his speeches and addresses as Provost, and correspondence, principally the contents of a folder titled 'Provost's Personal Letters'. Also included here are copies of the faxes sent from the Mathematics Department in July 1998 announcing Lighthill's death.

Section H, Publications, presents a chronological sequence of drafts and related material for Lighthill's publications, 1956-c.1998, and an incomplete set of his offprints, 1944-1998.

Section J, Lectures, presents a chronological sequence of drafts and related material for Lighthill's public and invitation lectures, 1954-1997, though a folder of '(Early) Public Lectures' contained almost all undated material. At the end of the chronological sequence is further undated material including transparencies and drawings for slides, and the draft of a radio broadcast by Lighthill, the only one in the collection.

Section K, Societies and organisations, is by far the largest in the collection. Lighthill's association with 16 British and international organisations is documented for the period 1962-1998. The largest body of material relates to the International Council of Scientific Unions (ICSU) 1983-1998, and in particular the Special Committee on the International Decade for Natural Disaster Reduction (SC-IDNDR) which Lighthill chaired from its first meeting in 1990 until 1 July 1995. Other major international commitments, which are well-documented, include the International Union of Theoretical and Applied Mechanics (IUTAM), 1966-1994, and the International Commission on Mathematical Instruction (ICMI), 1969-1984. In Britain Lighthill's most extensively documented commitment was the Institute of Mathematics and its Applications, 1962-1992, including early papers relating to the Institute's founding and Lighthill's term as its first President. Also of interest are records of the Culham Laboratory Review Panel which the UK Atomic Energy Authority asked to review the programme on plasma physics and fusion research and to make recommendations, 1966-1967, and Lighthill's review of the field of artificial intelligence for the Science Research Council, 1971-1972.

Section L, Visits and conferences, documents a number of conferences and visits made during the period 1965-1998. Material may include correspondence about arrangements and arising (letters of thanks, publication of proceedings, continuing contacts with scientific colleagues), abstracts, programmes, lists of participants, drafts of Lighthill's presentations, etc. Particularly well-documented are a Royal Aeronautical Society symposium on cheap short-range air transport in 1965, a visit to the



USSR in 1965 (including Novosibirsk), a symposium on swimming and flying in nature at CalTech in 1974, visit to China in 1987 and an international workshop on tropical cyclones in Mexico in 1993. Many meetings relating to Lighthill's ICSU and IUTAM commitments are documented in Section K.

Section M, Correspondence, is extensive, comprising a number of alphabetically and chronologically organised series: general correspondence (alphabetical) covering the period 1969-1992 (letters A-O only); general correspondence (chronological) covering the period 1974-1998; and copies of outgoing correspondence (alphabetical) covering the period 1992-1998. Additionally, there are a small number of miscellaneous files of correspondence with individuals include one relating to the support of the Newton scholar D.T. Whiteside in the period 1968-1971. There is also an extensive alphabetical series of reference material covering the period 1972-1992 (letters A-R only).

Section N, Non-textual material, comprises photographs, photographic slides and audiotapes. There are photographs of Lighthill from the period of his Directorship of the Royal Aircraft Establishment, Farnborough to the end of his life; and photographs relating to research and a lecture in the early 1950s. Photographic slides are undated. Topics include biomechanics of hearing and 'flagella + Goldstein Lecture'. The audiotapes are sound recordings of four lectures by Lighthill on 'Mathematical Biofluidynamics'.

There is also an index of correspondents.

Peter Harper  
Bath 2009

<b>SECTION A</b>	<b>BIOGRAPHICAL, A.1-A.97</b>	<b>1940-2000</b>
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A.1-A.5	OBITUARIES AND TRIBUTES	
A.6-A.11	BIOGRAPHICAL AND BIBLIOGRAPHICAL	
A.12-A.14	EDUCATION	
A.15-A.26	DIARIES	
A.27-A.55	HONOURS AND AWARDS	
A.56-A.97	CERTIFICATES	

<b>A.1-A.5</b>	<b>OBITUARIES AND TRIBUTES</b>	<b>1998-2000</b>
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A.1	<p>National newspapers</p> <p><i>Daily Telegraph</i>, 20 July 1998.</p> <p><i>The Times</i>, 20 July 1998.</p> <p><i>Guardian</i>, 21 and 25 July 1998.</p> <p><i>Independent</i>, 22 July and 1 August 1998.</p>	1998
A.2	<p>'La vie et oeuvre scientifique de Sir James Lighthill', <i>Académie des Sciences de l'Institut de France Discours et Notices biographiques</i> 2, 151-159</p>	1999
A.3	<p>'Sir James Lighthill', <i>J. Fluid Mech.</i> 386, 1-3</p>	1999
A.4	<p>G.I. Barenblatt, 'Scaling laws for turbulent wall-bounded shear flows at very large Reynolds numbers', <i>Journal of Engineering Mathematics</i> 36, 361-384</p> <p>The paper is 'dedicated to the glowing memory of Sir James Lighthill'.</p>	1999

**Biographical, A.1-A.97**

A.5	Koninklijke Nederlandse Akademie van Wetenschappen. Levensberichte en herdenkingen, 2000.  Includes commemoration of Lighthill at pp31-37.	2000
<b>A.6-A.11</b>	<b>BIOGRAPHICAL AND BIBLIOGRAPHICAL</b>	<b>1959-1991</b>
A.6-A.7	Curricula vitae and lists of publications  2 folders.	
A.8-A.10	Shorter biographical notes, entries for biographical directories, etc  3 folders.	1959-1991
A.11	Entry for Lighthill in <i>McGraw-Hill Modern Scientists and Engineers</i> with related correspondence	1978-1980
<b>A.12-A.14</b>	<b>EDUCATION</b>  'Notes on mathematics' in three ring binders.  At the front of the first binder is detailed contents list for the three binders. The subjects covered are General Methods of Analysis (Extrinsic); General Methods of Analysis (Intrinsic); Functional Equations; Special Functions; Geometry; Algebra; Arithmetic; and The Foundations of Mathematics. Volume I was 'begun 'Nov.1940'.	<b>1940, n.d.</b>
A.12	'M.J. Lighthill Notes on Mathematics, begun Nov. 1940 / Volume I'	
A.13	'M.J. Lighthill. Notes on Mathematics. / Volume II'  Begins with notes on 'Differential Equations: Special	n.d.

**Biographical, A.1-A.97**

Methods'.

A.14	'M.J. Lighthill. Notes on Mathematics. / Volume III'	N.d.
	Begins with notes on 'Lattices'.	

<b>A.15-A.26</b>	<b>DIARIES</b>	<b>1969-1979, 1989</b>
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Appointment diaries, principally from Lighthill's period as  
Lucasian Professor of Mathematics at Cambridge.

A.15	1969
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A.16	1970
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A.17	1971
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A.18	1972
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A.19	1973
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A.20	1974
------	------

A.21	1975
------	------

A.22	1976
------	------

A.23	1977
------	------



**Biographical, A.1-A.97**

A.24 1978

A.25 1979

A.26 1989

'Sir James Lighthill's desk diary'.

**A.27-A.55**

**HONOURS AND AWARDS**

**1965-1987**

See also Certificates, A.56-A.97.

A.27-A.28

Modesto Panetti Prize and gold medal, Accademia delle Scienze di Torino

1965

Correspondence and papers *re* award and Lighthill's visit to Turin for the solemn meeting of the Academy at which the award was made.

2 folders.

See also A.63.

A.29-A.30

Honorary degree, Princeton University, 1967

1966-1967

Correspondence and papers *re* arrangements, citation, photograph of Lighthill with fellow honorary graduands, etc.

2 folders.

See also A.65.

A.31-A.42

Knighthood

1971

Letters of congratulation.

12 folders.



**Biographical, A.1-A.97**

At A.41 is a poem 'Double Happiness Matchbox (May 1967)' found with the letters of congratulation. At A.42 are telegrams.

Unindexed.

- |           |  |                      |
|-----------|--|----------------------|
| A.43      | Provost, University College London   | 1979                 |
|           | Letters of congratulation.   |                      |
|           | The letters presented here are hardly representative of the large number of letters that Lighthill must have received on this occasion.  |                      |
| A.44-A.46 | Harvey Prize for Science and Technology 1981   | 1981-1982,<br>c.1998 |
|           | The prize was awarded to Lighthill in recognition of his pioneering research in fluid mechanics and his leadership in the applications to the engineering and biological sciences. |                      |
|           | See also A.80.   |                      |
| A.44      | Correspondence <i>re</i> award of science and technology prize to Lighthill, Technion-Israel Institute of Technology, June 1981  |                      |
| A.45      | Correspondence and papers <i>re</i> subsequent visit to Israel as Harvey Prize Laureate, December 1981   |                      |
| A.46      | 25 years anniversary booklet presenting Harvey Prize winners, 1972-1998  | c.1998               |
| A.47      | Member, Deutsche Akademie der Naturforscher Leopoldina   | 1983                 |
|           | Brief correspondence <i>re</i> Lighthill's election to membership of Leopoldina.   |                      |

**Biographical, A.1-A.97**

- |      |  |            |
|------|--|------------|
| A.48 | 60th birthday  | 1984       |
|      | <p>J.T.C. Liu, Selected Papers, 1974-1984 'Presented to Sir James Lighthill, F.R.S. on the Auspicious Occasion of his Sixtieth Birthday'.</p> <p>Bound volume.</p> |            |
| <br> |  |            |
| A.49 | Honorary degree, University of Leeds, 11 May 1984  | 1984       |
|      | <p>Correspondence <i>re</i> arrangements, order of proceedings, presentation addresses for Lighthill and fellow recipients.</p> <p>See also A.83.</p>              |            |
| <br> |  |            |
| A.50 | G.I. Taylor Medal Lecture, Society of Engineering Science, Inc. 21st Annual Meeting, Blacksburg, Virginia, USA, 15 October 1984                                    | 1984       |
|      | <p>Correspondence and papers.</p>  |            |
| <br> |  |            |
| A.51 | Foreign Member, Accademia della Scienze di Torino, Italy   | 1985       |
|      | <p>Brief correspondence <i>re</i> Lighthill's election to the foreign membership.</p>  |            |
| <br> |  |            |
| A.52 | Honorary degree, University of Southern California, 10 May 1985  |            |
|      | <p>Correspondence <i>re</i> arrangements.</p>  |            |
| <br> |  |            |
| A.53 | Ludwig-Prandtl-Ring of the Deutsche Gesellschaft für Luft- und Raumfahrt   | 1985, 1987 |
|      | <p>Brief correspondence <i>re</i> presentation of the Ludwig-Prandtl-Ring and subsequent meeting of holders of the Ring.</p> <p>See also A.82.</p>                 |            |
| <br> |  |            |
| A.54 | Honorary Fellowship, Trinity College, Cambridge  | 1986       |
|      | <p>Includes letters of congratulation.</p>   |            |

**Biographical, A.1-A.97**

- A.55                      Honorary degree, Technical University of Lisbon                      1986
- Letter *re* Lighthill's election honoris-causa by the University, manuscript notes in Portuguese of Lighthill's speech on the occasion.
- See also A.89, L.58, L.59.

**A.56-A.97                      CERTIFICATES                      1953-1992**

- A.56                      Fellow, Royal Society                      1953
- In tube.
- A.57                      Doctor of Science, University of St Andrews                      1957
- In tube.
- A.58                      Master of Arts, University of Cambridge (Lady Lighthill)                      April 1958
- 1 roll.
- A.59                      Foreign Honorary Member, American Academy of Arts and Sciences                      May 1958
- 1 roll.
- A.60                      Fellow, International Academy of Astronautics                      December 1960
- 1 roll.
- A.61                      Doctor of Science, University of Liverpool                      October 1961
- 1 roll.
- A.62                      Fellow, Royal Aeronautical Society                      November 1961
- 1 roll.

**Biographical, A.1-A.97**

A.63	Modesto Panetti Prize, Accademia delle Scienze di Torino, Italy  1 roll.	November 1965
A.64	Doctor of Science, University of Strathclyde  1 roll.	April 1966
A.65	Doctor of Science, Princeton University  1 roll.	June 1967
A.66	Doctor of Science, Bath University of Technology  Certificate in plastic covers.	June 1968
A.67	Doctor of Science, University of East Anglia  1 roll.	June 1968
A.68	Doctor of the University, University of Surrey  1 roll.	December 1969
A.69	Member, American Philosophical Society  1 roll.	April 1970
A.70	Fellow, University of Manchester Institute of Science and Technology  1 roll.	May 1972
A.71	Doctor of the Université Pierre et Marie Curie, Paris  1 roll.	May 1975



**Biographical, A.1-A.97**

A.72	Doctor of Engineering, Rhine-Westphalia Technical University Aachen, West Germany  Cased.	July 1975
A.73	Elliott Cresson Medal, Franklin Institute, Philadelphia  1 roll.	April 1975
A.74	Corresponding Member, Brunswick Scientific Society  Certificate.	January 1976
A.75	Foreign Associate, National Academy of Sciences  1 roll.	April 1976
A.76	Foreign Associate, National Academy of Engineering  1 roll.	April 1977
A.77	Doctor of Science, Rensselaer Polytechnic Institute, Troy, New York  In tube.	May 1980
A.78	Honorary Fellow, Institution of Chemical Engineers  1 roll.	December 1980
A.79	Centennial Award, American Society of Mechanical Engineers  Certificate.	1980
A.80	Harvey Prize in Science and Technology, Technion Israel Institute of Technology / American Technion Society  In wooden box.	June 1981



**Biographical, A.1-A.97**

A.81	Member, Deutsche Akademie der Naturforscher Leopoldina  Certificate in board and cloth covers.	July 1983
A.82	Ludwig-Prandtl-Ring of the Deutsche Gesellschaft für Luft- und Raumfahrt for 1983  1 roll.	May 1984
A.83	Doctor of Science, University of Leeds  Certificate.	May 1984
A.84	Doctor of Science, Brown University  Certificate.	November 1984
A.85	Honorary Fellow of Society for Underwater Technology  Framed.	December 1984
A.86	Honorary Fellow, Institution of Electrical Engineers  In original folder.	1984
A.87	Foreign Member, Academia Taurinensis (?Accademia delle Scienze di Torino)  In tube.	April 1985
A.88	Doctor of Science, University of Southern California  Framed.	May 1985
A.89	Honorary doctorate, Technical University of Lisbon, 1986  In tube.	1986

/...

**Biographical, A.1-A.97**

/...	See also A.55, L.58, L.59.	
A.90	Doctor of Philosophy, Weizmann Institute of Science, Rehovot, Israel  In tube.	November 1987
A.91	Rayleigh Lecturer, American Society of Mechanical Engineers Noise Control and Acoustics Division  In original folder.	1989
A.92	Fellowship, Imperial College of Science, Technology and Medicine, London  In original folder.	December 1989
A.93	Honorary Fellow, Royal Aeronautical Society  Certificate.	December 1990
A.94	Rayleigh Medal, Institute of Acoustics  Certificate.	May 1992
A.95-A.96	Doctor of Science, Florida State University, Tallahassee  2 framed documents.	November 1996
A.97	Honorary Fellow, Institute of the Aerospace Sciences  1 roll.	N.d.

SECTION B

RESEARCH, B.1-B.177

1956-1995

A sequence of the contents of Lighthill's containers: folder, box folder, filing cabinet divider, etc. organised alphabetically by title of container. The contents may include manuscript notes and drafts, manuscript working, offprints by Lighthill and others, correspondence etc. The contents of each container are presented in the order found.

The assignment of much of this material to 'Research' is tentative since many of the containers contained papers relating to publications, lectures, visits and conferences, etc.

At the end of the alphabetical sequence are miscellaneous research notes found loose.

B.1-B.17

'Aerodynamic Aspects of Animal Flight'

1956-1975

Contents of folder so inscribed divided into seventeen for ease of reference: typescript and manuscript drafts relating to lectures and publications by Lighthill, offprints of papers by others including T. Weis-Fogh, etc.

Includes typescript and manuscript drafts in German.

Lighthill published a paper with this title in *Bull. Inst. Math. Applics.*, 10, 369-393 (1974).

B.18-B.39

'Alan Parker C18H12S [Projects]'

1974

Contents of box folder so labelled divided into twenty-two for ease of reference: data, offprints etc.

Papers at B.20-B.25 were found in folder inscribed 'Alan Parker: Data Collection & Processing'. Papers at B.26-B.29 were found in folder inscribed 'PARKER'.

B.40-B.46

'Aquatic Animal Locomotion (general)'

1973-1976

Contents of folder so inscribed divided into seven for ease of reference: manuscript notes, offprints, papers *re* Cambridge Zoology Department, papers *re* symposium on swimming and flying in nature, California Institute of Technology, Pasadena, California, 8-12 July 1974 including programme, paper abstracts and notebook used by Lighthill for notes on proceedings (B.46), etc.



**Research, B.1-B.177**

- |            |   |                             |
|------------|---|-----------------------------|
| B.47-B.58  | <p>'Aquatic Animal Locomotion papers'</p> <p>Contents of folder so inscribed divided into twelve for ease of reference: offprints by others, typescript draft by Lighthill 'Scaling Problems in Aquatic Locomotion', photographs, correspondence, etc.</p> <p>B.58 is 'Hydrodynamics and Energetics of Fish Populations' by P.W. Webb, <i>Bulletin of the Fisheries Research Board of Canada</i> 190, 1975 with manuscript dedication to Lighthill.</p>   | <p>n.d., 1967-<br/>1978</p> |
| B.59-B.60  | <p>'Arterial disease'</p> <p>Contents of a filing cabinet divider so inscribed.</p> <p>Folder inscribed 'Roach papers on blood flow at bifurcation' divided into two for ease of reference: offprints by M.R. Roach and others, letter from Roach and manuscript notes.</p>   | <p>1966-1973</p>            |
| B.61-B.90  | <p>'BFD [Biofluidynamics] General'</p> <p>Contents of filing cabinet drawer so labelled divided into thirty for ease of reference: offprints, manuscript notes and drafts, manuscript working, correspondence, photographs, transparencies, etc. Includes material for lectures and publications by Lighthill.</p> <p>At B.61 are correspondence and papers relating to Lighthill's lecture 'How do Fishes Swim', Manchester Literary and Philosophical Society, 9 November 1983. Papers at B.75 relate to a visit to Nihon University, Japan, and papers at B.78-B.79 to the Natural Environment Research Council Culture Collection of Algae and Protozoa, Cambridge. At B.86-B.87 are papers found in folder inscribed 'Transparencies for Caltech, Philadelphia and Japan'.</p> | <p>1970-1991</p>            |
| B.91-B.100 | <p>'Early fish work'</p> <p>Contents of folder so inscribed divided into ten for ease of reference: manuscript working, manuscript drafts, bibliographical references, correspondence, photocopies of printed papers, etc.</p> <p>Most papers undated.</p>  | <p>n.d., 1968-<br/>1971</p> |

**Research, B.1-B.177**

B.101-B.104	<p>'Fish (experiment)'</p> <p>Contents of folder so inscribed divided into four for ease of reference: figures for publication or publications, correspondence and photographs from J. Gray, Cambridge University Zoology Department, offprint.</p>	1962, 1967, n.d
B.104A	<p>'Fisheries Research MAFF [Ministry of Agriculture, Fisheries and Food]'</p> <p>Contents of folder so inscribed: fax from Lighthill to A. Moore, MAFF Lowestoft Laboratory, Suffolk enclosing 'my first drafts of contributions to the project proposal which you are putting to the European Union', 17 February.</p>	1995
B.105-B.114	<p>'Flagellar Hydrodynamics'</p> <p>Contents of folder so inscribed divided into ten for ease of reference: manuscript notes for lecture or lectures, offprints by others.</p>	1966-1979
B.115-B.122	<p>'Flagellar Hydrodynamics'</p> <p>Contents of folder inscribed 'Von Neumann Lecture (Rough Notes for Flagellar Hydrodynamics)' divided into eight for ease of reference: correspondence, manuscript notes and working by Lighthill, manuscript draft by A.T. Chwang, etc.</p> <p>Most papers undated.</p>	1975, n.d.
B.123-B.125	<p>'Gibilaro-Wallis-Movement of Particles Appendices 1 &amp; 2'</p> <p>Contents of folder so inscribed divided into three for ease of reference: correspondence with G.B. Wallis and L. Gibilaro, papers by Wallis, etc.</p>	1990
B.126-B.131	<p>'Monsoon paper'</p> <p>Contents of folder so inscribed divided into six for ease of reference: figures, manuscript drafts and working, offprint and IUGG [International Union of Geodesy and Geophysics] General Assembly paper.</p>	1967, n.d.



**Research, B.1-B.177**

B.132-B.142	'Monsoon stuff'	
	Contents of folder so inscribed divided into eleven for ease of reference: manuscript working, notes and drafts.	
B.143	'Sir Eric Denton and Swimming Fishes Papers'	1989-1990
	Contents of folder so inscribed: correspondence with Denton and two 'notes' by Lighthill 'Far fields of swimming fishes' and 'Estimating the lateral-line pressure differences for swimming fishes in the far fields of other swimming fishes'.	
B.144-B.151	'Theory of the Propulsive Lunate Tail'	1969, n.d.
	Contents of folder so inscribed divided into eight for ease of reference: manuscript and typescript drafts entitled 'Aquatic Animal Propulsion of High Hydromechanical Efficiency', offprint of Lighthill's paper 'Hydromechanics of Aquatic Animal Propulsion', <i>Annual Review of Fluid Mechanics</i> , 1, 413-446 (1969), manuscript working, etc.	
B.152-B.155	'Typescripts'	n.d., 1964
	Contents of folder so inscribed.	
B.152	'Proof of a conjecture of Spence'	N.d.
	4pp typescript.	
B.153	'Prolegomena to the computation of flow development at moderate Reynolds number'	N.d.
	3pp manuscript draft and manuscript working.	
B.154	'Some Preliminary Notes on the Possibility of Applying Certain Methods of Fluid Dynamics to Certain Problems of Road Traffic' (with G.B. Whitham)	
	13pp typescript and manuscript figures.	

**Research, B.1-B.177**

Lighthill and Whitham published a paper in 1955 'On kinematic waves. II. A theory of traffic flow on long crowded roads', *Proc. Roy. Soc.* 229, 317-345.

B.155	<p>'Contribution to the Theory of Surface Currents Generated by Submarine Wake Collapse'</p> <p>Typescript draft and manuscript figures for Royal Aircraft Establishment technical memorandum DIR. 24 and duplicated typescript copy in RAE covers.</p> <p>For further RAE memoranda by Lighthill see Section D.</p>	1964
B.156	<p>'Waves in Sea Horses'</p> <p>Contents of folder so inscribed: manuscript and typescript notes titled 'A vortex-ring approach to the thrust generated by rippling fins', offprints by others.</p>	1976-1977
B.157-B.160	<p>'Weihs papers'</p> <p>Contents of folder so inscribed divided into four for ease of reference: offprints of papers by D. Weihs, Technion, Haifa, Israel, on manoeuvrability of fish, hydromechanics of fish schooling etc, photograph, manuscript and typescript notes, etc.</p>	1972-1975
B.161-B.177	Miscellaneous research notes found loose	1966-1968, n.d.
B.161	<p>'Otodynamics'</p> <p>Manuscript notes found clipped together.</p>	N.d.
B.162	Reprint of paper by G.W. Schaefer 'Energy Requirements of Migratory Flight', <i>IBIS</i> 110 (1968), 413-414, with manuscript notes enclosed	1968, n.d.
B.163-B.176	<p>Papers ?re fluid dynamics found together</p> <p>Correspondence, bibliographical references, photographs, typescript drafts of papers by R. Hide, manuscript notes, figures etc.</p>	1966-1968  /...

**Research, B.1-B.177**

/...

14 folders.

Papers at B.150 were found in a folder inscribed  
'Transverse flow past sphere in rotating fluid [Raymond]  
HIDE'.

B.177

Unidentified and undated

N.d.

<b>SECTION C</b>	<b>UNIVERSITY OF MANCHESTER, C.1-C.45</b>	<b>1949-1959, n.d.</b>
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Teaching material.

Most of the material is undated and therefore the assigning of some of the teaching material in this section to Manchester is tentative.

In 1946 Lighthill was appointed Senior Lecturer in Mathematics at Manchester, and in 1950 became Beyer Professor of Applied Mathematics, a position he held until 1959.

C.1	'Lectures in Applied Mathematics (Honours) Schedules 1955-56 Contents: Preamble and Scheme of Lectures Applied Mathematics Schedules'	1955
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26pp duplicated typescript.

C.2	'Notes on the Hypergeometric Function'	N.d.
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9pp duplicated typescript. Possibly related to teaching at Manchester.

C.3-C.4	'Lectures'	N.d.
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Contents of folder so inscribed divided into two for ease of reference: manuscript lecture notes headed 'Analysis' and paginated 1-42 (both sides of paper used but only one side numbered).

C.5-C.6	'Elasticity'	N.d.
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Contents of folder so inscribed divided into two for ease of reference: manuscript draft lecture course paginated 1-53.

C.7-C.9	'Fundamentals of Thermodynamics'	1955, n.d.
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Contents of folder so inscribed divided into three for ease of reference: manuscript draft lecture course paginated 1-53.

At C.7 are manuscript lecture notes not in Lighthill's hand dated '8/6/55'.



**University of Manchester, C.1-C.45**

C.10-C.12	<p>'Mhpp [Magnetohydrodynamics and plasma physics]'</p> <p>Contents of folder so inscribed divided into three for ease of reference: manuscript draft lecture course paginated 1-71.</p>	N.d.
C.13	<p>'Mechanics'</p> <p>Manuscript draft lecture course so titled paginated I-XXVII (both sides of paper used but only one side numbered).</p> <p>First page headed 'Lecture 6/11/49' and subsequently crossed out.</p>	1949
C.14	<p>'Mechanics'</p> <p>Manuscript lecture course so titled paginated 1-35.</p>	N.d.
C.15-C.17	<p>'Univ. Lectures Mech.'</p> <p>Contents of folder so inscribed divided into three for ease of reference: manuscript draft paginated 1-26, unpaginated notes, duplicated typescript examples, Parsec MUAS [Manchester University Astronomical Society] Magazine Summer Term [1959].</p> <p>The duplicated typescript relates to 'H.1. Mechanics. Summer Term 1959'</p>	1959
C.18-C.21	<p>'H2 Mech.'</p> <p>Contents of folder so inscribed divided into four for ease of reference: manuscript draft lecture course paginated 1-53, duplicated typescript examples.</p>	N.d.
C.22-C.24	<p>'Methods'</p> <p>Contents of folder so inscribed divided into three for ease of reference: variously paginated sequences of manuscript notes, 1-33, 1-29, 48-70.</p> <p>The first page of the first sequence is headed 'Methods of Mathematical Physics'.</p> <p>Lighthill uses both sides of the paper but only numbers one</p>	N.d.

**University of Manchester, C.1-C.45**

side.

- |           |  |            |
|-----------|--|------------|
| C.25-C.29 | 'Old F.D. [Fluid Dynamics] Notes'  | N.d.       |
|           | Contents of folder so inscribed: variously paginated and titled manuscript notes and duplicated example sheets.  |            |
| C.25      | Example sheets and sequence of notes paginated 1-14 (both sides used, only one side numbered) and headed on first page 'Two-dimensional Potential Theory', page 14 headed 'Theory of Aerofoil Design'. |            |
| C.26      | Example sheet and sequence of notes paginated 1-19 (both sides used, only side numbered) headed 'Hydrodynamics'  |            |
| C.27      | Sequence of manuscript notes paginated I-XXV (both sides used, only one side numbered) and headed 'Hydrodynamics (H2ii)'   |            |
| C.28      | Sequence of manuscript notes paginated 1-18 (both sides used, only one side numbered) and headed 'Hydrodynamics'   |            |
| C.29      | Sequence of notes paginated 1-31 (both sides used, only one side numbered) and headed 'Dynamics of a Viscous Gas'  |            |
| C.30-C.36 | 'Old Lectures'   | 1951, n.d. |
|           | Contents of folder so inscribed divided into seven for ease of reference: variously paginated and titled manuscript notes, etc   |            |
| C.30      | Includes manuscript notes headed 'P1A' and 'Vector Algebra' and duplicated typescript 'Terminal Examination, January 1951' for '1st Year Honours Techniques'   |            |
| C.31      | Manuscript notes headed 'Vectors' paginated 1-20 (both   |            |

**University of Manchester, C.1-C.45**

sides of paper used, only one side numbered)

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|-----------|---|---------------------|
| C.32      | Untitled manuscript notes paginated 20-34 (both sides of paper used, only one side paginated)   |                     |
| C.33      | Manuscript notes paginated 6-18 (both sides of paper used, only one side numbered)<br><br>First page titled 'Systems of Particles'.   |                     |
| C.34      | Manuscript notes paginated 1-24 (both sides of paper used, only one side numbered)<br><br>First page titled 'Flexure of Beams'.   |                     |
| C.35      | Untitled manuscript notes paginated 19-38 (both sides of paper used, only one side numbered)  |                     |
| C.36      | 'Electrostatics'<br><br>Manuscript notes so titled paginated 35-39 (both sides of paper used, only one side of paper numbered).   |                     |
| C.37      | 'The Operational Method of Solving Differential Equations with Initial Conditions'<br><br>Manuscript notes so titled paginated 1-9.   | N.d.                |
| C.38      | 'Techniques & Mechanics'<br><br>Manuscript lecture notes so titled paginated 1-12 (both sides of paper used, only one side numbered) and examples.                                    | N.d.                |
| C.39-C.42 | 'Turbulence'<br><br>Contents of folder so inscribed divided into four for ease of reference: offprints, 1950, 1954; manuscript notes for lectures paginated 1-70; manuscript working. | 1950, 1954,<br>n.d. |

**University of Manchester, C.1-C.45**

C.43-C.44	'Vibration and Waves'	N.d.
	Manuscript lectures notes so titled paginated 1-49.	
	2 folders.	
C.45	'Viscosity'	N.d.
	Contents of folder so inscribed: manuscript notes headed 'Viscosity', 'Range of Reynolds numbers', 'Flow at small Reynolds number', etc.; manuscript notes headed 'Turbulence', paginated 1-3 (both sides used, only one side numbered).	



<b>SECTION D</b>	<b>ROYAL AIRCRAFT ESTABLISHMENT (RAE), FARNBOROUGH, D.1-D.24</b>	<b>1959-1968</b>
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Lighthill was Director of RAE, Farnborough, 1959-1964.

D.1-D.7	'Director - Personal and Confidential Correspondence'	1959-1964
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Contents of folder so inscribed.

D.1	1959-1962
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Includes letter of appointment as Director, 21 August 1959 and letter extending appointment for a further three years, 5 November 1962.

D.2	1963 January - June
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Includes letter from Royal Society offering Lighthill a Royal Society Research Professorship, 20 June and letter from Imperial College Rector Sir Patrick Linstead, expressing his delight that Lighthill would like to hold it at the College, 26 June.

D.3	1963 July - December
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D.4	1964 January - April
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Includes Lighthill's letter of resignation from the Directorship, 18 February and typescript of Lighthill's talk to senior staff announcing his resignation and reviewing his work at the RAE (see also D.20).

D.5	1964 May - June
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Includes Lighthill's list 'of really distinguished outsiders who could be considered for the R.A.E. post', 11 May, and Lighthill's curriculum vitae, list of publications and sketch plan of accommodation requirements sent to Secretary of Imperial College, 27 May.

D.6	1964 July - August
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**Royal Aircraft Establishment, Farnborough, D.1-D.24**

/...	Includes Lighthill's letter to the Permanent Secretary, Ministry of Aviation, 5 August 1964, summarising his period at the RAE as follows: 'I see that, on behalf of the R.A.E., I have been the general who won all his battles except the last one - and lost the war. Now I have, simply, to cut my losses, and console myself with the fact that I have wasted only five years of my life'.	
D.7	1964 September - October	
D.8	'Transcript of the Speech made by the Director to members of Chemistry Department and Metallurgy & Physics Department at the Assembly Hall on the 1st November, 1962'	1962
D.9-D.24	Technical Memoranda and Reports  See also B.155.	1960-1968
D.9	'The Statistical Approach to the Work of the R.A.E', draft Technical Memorandum no: DIR. 4	N.d. [1960]
D.10	'Where are we going scientifically in aeronautics?', Technical Memorandum no: DIR. 5	November 1962
D.11	'Formation of Weapons and Space Departments', Technical Memorandum no: DIR. 9	January 1962
D.12	'Future Organisation of Work at the Royal Aircraft Establishment on Airborne Electrical, Electro-Mechanical and Electronic Equipment', Technical Memorandum no: Dir. 11	July 1962
D.13	'A Brief Account of the Organisation of the Royal Aircraft Establishment', Technical Memorandum no: DIR. 13	November 1962
D.14	'Speedy and Effective Written Communication of the Results of R. & D. Work at R.A.E.', Technical	November 1962

**Royal Aircraft Establishment, Farnborough, D.1-D.24**

Memorandum no: DIR. 14

D.15	'Formation of Chemistry, Physics and Metallurgy Departments', Technical Memorandum no: DIR. 15	November 1962
D.16	'U.K. and European Potential in Space', Technical Memorandum no: DIR. 16	December 1962
D.17	'Notes on a Visit to U.S.A. Lasting from 19th January to 2nd February, 1963', Technical Memorandum no: DIR. 18	February 1963
D.18	'The Use of the P.S.O. Grade at R.A.E. Discussed in Relation to the Treasury Request for Information regarding Ageing Scientists', Technical Memorandum no: DIR. 19	N.d.
D.19	'The Case for More P.S.O.'s at the R.A.E.', Technical Memorandum no: DIR. 20	January 1964
D.20	'Five years at the Royal Aircraft Establishment', Technical Memorandum no: DIR. 22  See also D.4.	April 1964
D.21	'Computers in the Work of the R.A.E.', Technical Memorandum no: DIR. 23	May 1964
D.22	'Future Research at Very High Speeds and the Prospects of Applications in the Field', R.A.E. Report no. AERO. 2667  Lighthill is not listed as a contributor to this Report (see p.13).	May 1962
D.23	'Report of the Working Party on Short Range Minimum Cost Air Transport', Report no. AERO 2686  The Report presented findings of a working party under the chairmanship of Lighthill as Director of the RAE.	January 1964



**Royal Aircraft Establishment, Farnborough, D.1-D.24**

D.24                      'Bibliography on Sonic Bangs', Library Bibliography no. 287    January 1968

Found with Lighthill's RAE papers.

SECTION E	IMPERIAL COLLEGE LONDON, E.1-E.25	1964-1970
	Lighthill was Royal Society Research Professor at Imperial College, 1964-1969.	
E.1-E.5	<p>Royal Society Research Professorship</p> <p>Correspondence with the Royal Society <i>re</i> Lighthill's Royal Society Research Professorship at Imperial.</p> <p>Includes announcement and terms of appointment, research reports and budgets.</p> <p>5 folders.</p>	1964-1970
E.6-E.17A	<p>Physiological Flow Studies Unit (PFSU)</p> <p>The Physiological Flow Studies Unit was established at Imperial College London in 1966 within the Department of Aeronautics. The Unit's work covered the areas of arterial and respiratory fluid mechanics.</p> <p>C.G. Caro, a physiologist at St Thomas's Hospital Medical School, London first approached Lighthill in November 1964 about collaboration with a mathematician or fluid dynamicist. He became Director of the Physiological Flow Studies Unit.</p>	1964-1967
E.6-E.17	<p>'Origins of PFSU'. Contents of Lighthill's folder so inscribed divided into twelve for ease of reference: correspondence and papers <i>re</i> the establishment of the Unit at Imperial includes fund raising, lecture programmes and research.</p> <p>The principal correspondent is the Unit's Director, C.G. Caro.</p>	1964-1967
E.17A	<p>Signed best wishes card 'from the P.F.S.U'</p> <p>Undated, but very possibly sent to mark Lighthill leaving Imperial for Cambridge in 1969.</p>	N.d.
E.18-E.22	<p>Teaching material</p> <p>Contents of folder inscribed 'Basic Mechanics Lectures' divided into five for ease of reference: paginated</p>	1966-1967

**Imperial College London, E.1-E.25**

manuscript draft lecture course, manuscript notes, course outline etc.

Lighthill lectured on physics and mathematical topics to physiologists and doctors interested in research.

E.23-E.25

Farewell Lecture, with film on the topic 'Aerodynamical Sound Generation', 15 July 1969

1969

Lecture notice and manuscript and duplicated typescript.

3 folders.

The lecture notice explains that the film was prepared by Lighthill and J.E. Ffowcs Williams under the auspices of the US National Committee for Fluid Mechanics Films. Lighthill gave a short lecture in the form of a general introduction before the film was shown.



<b>SECTION F</b>	<b>UNIVERSITY OF CAMBRIDGE, F.1-F.67</b>	<b>1966-1979, n.d.</b>
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Lighthill was Lucasian Professor of Mathematics at Cambridge, 1969-1979.

F.1-F.49                      TEACHING MATERIAL

F.50-F.64                      TRINITY COLLEGE, CAMBRIDGE

F.65-F.67                      'CAMBRIDGE UNIVERSITY SWIMMING POOL'

<b>F.1-F.49</b>	<b>TEACHING MATERIAL</b>	<b>1966-1979, n.d.</b>
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F.1-F.7	'Aerodynamic Sound Generation'	1968-1973
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Contents of folder so inscribed divided into seven for ease of reference: offprints, manuscript drafts, manuscript working, duplicated papers for Part III of the Cambridge Mathematical Tripos, etc.

F.8-F.38	Biological Fluid Dynamics	1966-1978
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F.8-F.11	'BFD General Description Pt 1 of course'	1969-1978
	Contents of folder so inscribed.	

F.8	Manuscript notes and duplicated papers including examination questions and mathematical exercises	1977-1978
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F.9	3 photographs of Lighthill with ? Japanese colleagues, one dated 1977	
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F.10	'Mathematical Biofluidynamics Notebook'	N.d.
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The 'notebook' comprises duplicated illustrative material for four lectures on mechanics of fish swimming, flagellar hydrodynamics, aerodynamics of animal forward flight and

**University of Cambridge, F.1-F.67**

animal soaring and hovering and may have been prepared to accompany a course of lectures given by Lighthill on a visit from Cambridge. It is described on the front cover as presented by Sir James Lighthill as Lucasian Professor of Mathematics at Cambridge.

F.11	'Natural Flight & Related Aeronautics 1969 Report on Beating Wings & Fins' by James L.G. Fitz Patrick, Staten Island Community College, City University New York	1969
F.12-F.17	<p>'High - R Aquatic Animal Locomotion Pt 3 of course'</p> <p>Contents of folder so inscribed divided into six for ease of reference: manuscript notes, transparencies etc.</p>	N.d.
F.18-F.19	<p>'Introduction to the Scaling of Aerial Locomotion Pt 4 of course'</p> <p>Contents of folder so inscribed divided into two for ease of reference: manuscript notes, duplicated papers including draft by Lighthill on 'Bioaerodynamics of hovering flight', offprint.</p>	1973, n.d.
F.20	<p>'Internal Biofluidynamics (general) including Secondary Flow Part 5 of course'</p> <p>Contents of folder so inscribed: manuscript notes, duplicated papers, letter from Conference Board of the Mathematical Sciences, Washington D.C., etc.</p>	1973, n.d.
F.21-F.27	<p>'Arterial Disease Part 6 of course'</p> <p>Contents of folder so inscribed divided into seven for ease of reference: manuscript notes, offprints, etc.</p>	1966-1974
F.28-F.38	<p>'Microcirculation Part 7 of course'</p> <p>Contents of folder so inscribed divided into eleven for ease of reference: manuscript notes, offprints.</p>	1968-1977

**University of Cambridge, F.1-F.67**

F.39-F.45	<p><b>'Mathematical Methods'</b></p> <p>Contents of folder so inscribed divided into seven for ease of reference: schedules of lecture courses for Mathematical Tripos 1978-1979, course questionnaires (filled in by students), manuscript notes and workings, etc.</p>	1977-1978
F.46-F.49	<p>Bundle of manuscript notes found with teaching material but not identified as such</p> <p>4 folders.</p>	1979, n.d.
F.50-F.64	<p><b>TRINITY COLLEGE, CAMBRIDGE</b></p> <p>'The campaign for changes in statutes at Trinity, which led to the admission of women'. Contents of folder so inscribed divided into fifteen for ease of reference: duplicated committee papers, Lighthill's manuscript notes, etc.</p>	1974-1975
F.65-F.67	<p><b>'CAMBRIDGE UNIVERSITY SWIMMING POOL'</b></p> <p>Contents of folder so inscribed divided into three for ease of reference: correspondence and papers <i>re</i> swimming pool developments in Cambridge University, principally a proposal for a joint Churchill College / Trinity College swimming pool.</p> <p>At F.66 are Sports Council TUS [Technical Unit for Sport] Bulletin 1 Public Indoor Swimming Pools, and papers found enclosed within it.</p>	1973-1978



<b>SECTION G</b>	<b>UNIVERSITY COLLEGE LONDON, G.1-G.66</b>	<b>1976-1998</b>
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Lighthill was Provost of University College London, 1979-1989.

G.1-G.21	INSTITUTIONAL PLANNING
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G.22-G.37	PROVOST'S SPEECHES
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G.38-G.64	CORRESPONDENCE
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G.65-G.66	MISCELLANEOUS
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<b>G.1-G.21</b>	<b>INSTITUTIONAL PLANNING</b>	<b>1985-1989, n.d.</b>
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G.1-G.17	'UCL'	1985-1989, n.d.
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Contents of Lighthill's box folder so inscribed divided into seventeen for ease of reference: a sequence of documents principally relating to institutional planning presented in the order found.

Papers covering the last years of Lighthill's Provostship predominate (though a significant number are undated) and include papers relating to 1988 visit to UCL of the University Grants Council main committee.

Addresses by the Provost are at G.5 and G.7.

G.18-G.19	'University College London Response to UGC [University Grants Committee] Questionnaire'	N.d.
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71pp typescript, undated but relates to the planning period 1983/4 to 1989/90.

2 folders.

G.20	'Revised Institutional Plan and Financial Forecasts to 1991-92'	June 1988
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Duplicated typescript booklet.

**University College London, G.1-G.66**

G.21	'University College London Academic Aims for the Enlarged UCL'	n.d.
	Duplicated typescript booklet.	
<b>G.22-G.37</b>	<b>PROVOST'S SPEECHES</b>	<b>1976-1988</b>
	See also G.5, G.7 and G.41.	
G.22-G.31	'Provost's Speeches 1979/80'	1976-1988, n.d.
	Contents of folder so inscribed divided into ten for ease of reference: manuscript and typescript notes and drafts (predominantly manuscript) for Provost's speeches at a number of UCL occasions including reception of Freshers, annual Assembly of Faculties, Schools Conference, and inauguration of Fellows.	
	Many notes are undated but clearly cover a longer period of Lighthill's provostship than the folder title suggests. At G.31 is 'Speech by Lord Annan Provost of University College at the Foundation Oration Monday 8 March 1976'.	
G.32-G.37	Miscellaneous speeches	1982-1986, n.d.
G.32	'Pasts, Present and a Future', Founders Day Astor Lecture, Middlesex Hospital Medical School, University of London, 6 July 1982	1981-1982
	Typescript draft, correspondence <i>re</i> arrangements.	
G.33	'Mansion House Dinner - 5th May 1983 - Provost's Speech'	1983
	2 typescript drafts.	
G.34	'Provost's Speech for the Assembly of Faculties on 22 June 1983'	1983
	Typescript draft.	

**University College London, G.1-G.66**

G.35	'The Crabtree Oration' on 'Crabtree's Theorem'	1986
	Typescript draft.	

G.36	Speech proposing the toast to the University of London	n.d.
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G.37	'UCL and its Quadrangle: a brief retrospect'	n.d.
	Typescript draft, undated but appears to have been written in connexion with an anniversary appeal.	
	Found with drafts of a number of the Provost's speeches.	

<b>G.38-G.64</b>	<b>CORRESPONDENCE</b>	<b>1971-1998</b>
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G.38-G.55	'Provost's Personal Letters'	1971-1991
	Contents of folder so inscribed.	

G.38	1971-1977
	Pension arrangements.

G.39	1978-1979
	Lighthill's appointment as Provost.

G.40	1980
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G.41-G.43	1981
	3 folders.

G.41 includes 'Speech by Sir James Lighthill, Provost of University College London, in honour of the Prime Minister of Mauritius, Rt Hon. Sir See Woosagar Ramgoolam', 10 February.



**University College London, G.1-G.66**

G.44	1982	
G.45	1983	
G.46-G.47	1984 2 folders.	
G.48	1984-1988	
G.49-G.52	1989 4 folders. Includes correspondence and papers <i>re</i> Lighthill's retirement from the Provostship.	
G.53-G.54	1990 2 folders.	
G.55	1991	
G.56-G.58	Miscellaneous correspondence	1979-1998
G.56	1979	
G.57	1989-1991	
G.58	1989, 1998	
G.59-G.64	Copies of faxes announcing Lighthill's death These were sent from the Department of Mathematics at	July 1998

**University College London, G.1-G.66**

UCL under the signature of the head of department D.G. Larman.

6 folders.

A little incoming correspondence is included in the sequence.

**G.65-G.66**

**MISCELLANEOUS**

**1981-1989**

G.65

Record book for attendance at UCL society or club

1981-1984

The record runs from the inaugural meeting, 18 May [1981] to the eleventh meeting, 9 February 1984.

The society is not identified. Lighthill was honorary president.

G.66

Card for 'Sir James Lighthill FRS Provost of University College London 1979-1989', signed by UCL Vice-Provosts and Deans 'with admiration, affection and gratitude'

March 1989

The card was to accompany the gift of a print to Lighthill.

<b>SECTION H</b>	<b>PUBLICATIONS, H.1-H.196</b>	<b>1944-1999</b>
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H.1-H.137	OWN PUBLICATIONS
H.138-H.180	OFFPRINTS
H.181-H.195	PUBLICATIONS OF OTHERS
H.196	CORRESPONDENCE <i>RE</i> PUBLICATIONS

<b>H.1-H.137</b>	<b>OWN PUBLICATIONS</b>	<b>1956-c.1998</b>
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A chronological sequence of drafts and related material for Lighthill's publications

H.1	'Summer Meeting of the Physical Society'	1956
	6pp typescript sent to <i>Nature</i> , 25 July 1956.	

H.2-H.14	<i>An Introduction to Fourier and Generalised Functions</i> , Cambridge University Press, 1958	1958-1964
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H.2-H.12	'An. F.A. & G.F.'	
	Contents of folder so inscribed divided into eleven for ease of reference, proofs and manuscript and typescript drafts.	

H.13-H.14	Reviews	
	2 folders.	

H.15	'Dynamics of a Dissociating Gas'	c. 1959
	12pp typescript draft, latest bibliographical reference 1959.	



**Publications, H.1-H.196**

H.16	<p>'Aeronautical Research', <i>Financial Times</i>, September 1960</p> <p>Correspondence, 3pp typescript draft.</p>	1960
H.17-H.20	<p>Contributions to the theory of waves in non-linear dispersive systems', <i>J. Inst. Math. Appl.</i> 2, 1965</p> <p>'Contents of folder inscribed 'Non-linear Dispersion' divided into four for ease of reference: typescript draft, figures, correspondence etc.</p>	1965
H.21-H.27	<p>'Hydromechanics of Aquatic Animal Propulsion', <i>Annual Review of Fluid Mechanics</i>, 1, 1969</p> <p>Contents of folder inscribed 'Fish HAAP figures' divided into seven for ease of reference: figures, typescript pages and offprints of 1969 paper and copy of <i>Endeavour</i>, May 1970 with article by Lighthill 'How do fishes swim?'</p>	1969-1970
H.28	<p>'Aquatic animal propulsion of high hydromechanical efficiency', <i>J. Fluid Mech.</i> 44, 1970</p> <p>Proof copy only.</p>	1970
H.29	<p>'Large-amplitude elongated-body theory of fish locomotion', <i>Proc. Roy. Soc. B</i> vol. 179, 1971</p> <p>Typescript 'First draft'.</p>	1971
H.30-H.33	<p>'On the Weis-Fogh mechanism of lift Generation', <i>J. Fluid Mech.</i> 60, 1973</p> <p>Manuscript and typescript drafts, etc.</p> <p>4 folders.</p>	1973
H.33A	<p>'Mathematical Theories of Fish Swimming', in <i>Fisheries Mathematics</i> (ed J.H. Steele), London, Academic Press 1977</p> <p>Typescript draft.</p>	c. 1977

**Publications, H.1-H.196**

H.34-H.36	<p>'Waves in Fluids', Cambridge University Press, 1978</p> <p>Reviews.</p> <p>3 folders.</p>	c. 1978
H.37-H.40	<p>'A simple fluid-flow model of ground effect on hovering', <i>J. Fluid. Mech.</i>, 1979</p> <p>Contents of folder divided into four for ease of reference: proof, manuscript drafts and working.</p>	c. 1979
H.41	<p><i>Monsoon Dynamics</i>, (edited by Lighthill and R.P. Pearce), Cambridge University Press, 1981</p> <p>Review only.</p>	c. 1981
H.42	<p>'Early Development of an "Acoustic Analogy" Approach to Aeroacoustic Theory', <i>AIAA [American Institute of Aeronautics and Astronautics] Journal</i>, 1982</p> <p>Correspondence, typescript draft, proof.</p>	1980-1982
H.42A	<p>'Advantages from Describing Cochlear Mechanics in Terms of Energy Flow'</p> <p>Typescript draft, latest bibliographical reference 1982.</p> <p>Listed in bibliography at A.7 as 'for Symposium volume Mechanics of Hearing'.</p>	c.1982
H.43-H.48	<p>'Keith Stewartson', <i>Biographical Memoirs of Fellows of the Royal Society</i> 31, 1985</p> <p>Correspondence, drafts and offprint of memoir.</p> <p>6 folders.</p>	1983-1986
H.49-H.61	<p><i>An informal introduction to theoretical fluid dynamics</i>, Cambridge University Press, 1986</p>	1983-1989

**Publications, H.1-H.196**

H.49-H.51	Correspondence with Institute of Mathematics and its Applications, Oxford University Press, etc. <i>re</i> publication  3 folders.	1983-1989
H.52-H.60	Typescript draft  9 folders.	
H.61	Reviews	
H.62-H.70	'Fundamentals concerning wave loading on offshore structures', <i>J. Fluid. Mech.</i> 173, 1986  Correspondence <i>re</i> publication including referees' reports, drafts, offprint etc.  Papers relating to this publication include material relating to earlier publication on waves and hydrodynamic loading.  9 folders.	
H.71-H.74	'The recently recognised failure of predictability in Newtonian dynamics', <i>Proc. Roy. Soc. A.</i> 407, 1986  Requests for copies (unindexed); offprint.  4 folders.	1986-1988
H.75	'What is mechanics?', <i>IMA Bulletin.</i> 1987  Typescript draft, proof, brief correspondence.	1986-1987
H.76	'Epilogue: Towards a More Fully Integrated Fish Biomechanics', n.d., but while Lighthill was UCL Provost, 1979-1989  Typescript draft.	
H.77-H.78	(with J.R. Blake) Biofluidynamics of ballistiform and gymnotiform locomotion, Part 1. <i>J. Fluid Mech.</i> 212, 1990,	1989-1990



**Publications, H.1-H.196**

	Parts 2,3 and 4. <i>J. Fluid Mech.</i> 213, 1990	
	Correspondence, referees' reports on Part 1, typescript draft of Part 4, etc.	
	2 folders	
H.79-H.80	'Emendations to a proof in the general three-dimensional theory of oscillating sources of waves', <i>Proc. Roy. Soc. A</i> 427, 1990	1990
	Correspondence, typescript draft etc.	
	2 folders.	
H.81-H.82	'Sydney Goldstein', <i>Biographical Memoirs of Fellows of the Royal Society</i> 36, 1990	1989
	Correspondence, typescript draft.	
	2 folders.	
H.83	<i>Citations Classics</i> essay on Lighthill's 1952 paper 'On Sound Generated Aerodynamically. I. General Theory', <i>Proc. Roy. Soc. A</i> 211, Current Contents, 1991	1990
	Correspondence and typescript draft of Lighthill's 'essay' on the background to his 1952 paper.	
H.84-H.87	'Hydrodynamics far fields', pp3-20 of <i>Mathematical Approaches in Hydrodynamics</i> (ed. T. Miloh) SIAM, 1991	1990-1992
	Correspondence, drafts.	
	4 folders.	
H.88	Incomplete untitled manuscript draft paginated 3-22	c. 1991
	Latest bibliographical reference 1991.	
H.89-H.92	'Acoustic Streaming in the Ear Itself', <i>J. Fluid Mech.</i> 239, 1992	1991

**Publications, H.1-H.196**

Correspondence, drafts.

4 folders.

H.93-H.95	'Handbook of Acoustics - Aeroacoustics, Atmospheric Sound'	1990-1991
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Contents of folder so inscribed divided into three for ease of reference: correspondence, drafts.

Lighthill was the editor of the Handbook's Section III. Aeroacoustics and Atmospheric Sound and wrote the Section's introductory chapter.

H.96-H.98	'An introduction to the Nonlinear acoustics of random sawtooth waves'	1992
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Correspondence, drafts.

3 folders.

Lighthill proposed a paper of this title for a special issue of *Theoretical and Computational Fluid Dynamics*.

H.99-H.101	(with G. Holland, W. Gray, C. Landsea, G. Craig, J. Evans, Y. Kurihara and C. Guard) 'Global Climate Change and Tropical Cyclones', <i>Bull. Amer. Meteor. Soc.</i> 75, 1994	c.1994
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Contents of folder inscribed 'Global Climate Change and Tropical Cyclones' divided into three for ease of reference: correspondence, drafts.

H.102	'Fourier Lecture'	1994
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Contents of folder so inscribed: letter to Institute of Mathematics and its Applications, 12 April 1994, enclosing 'the requested write-up of my recent Lecture in a 'popular' version suitable for the IMA Bulletin' and typescript draft entitled 'Can Fourier Asymptotics be stood on its head?'

H.103	'Ocean tides from Newton to Pekeris (The Inaugural Pekeris Memorial Lecture)', Israel Academy of Sciences and Humanities, 1995	1993-1996
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Contents of folder inscribed 'Ocean Paper':

**Publications, H.1-H.196**

correspondence, draft.

- |             |  |           |
|-------------|--|-----------|
| H.104-H.115 | <p>'Chapter 10. Fluid Mechanics', <i>Twentieth-Century Physics</i> (edited by Laurie M. Brown, Abraham Pais and Brian Pippard), Bristol; New York: Institute of Physics Publishing: American Institute of Physics, c1995.</p> <p>Correspondence with editor Brian Pippard and Institute of Physics Publishing, drafts, etc.</p> <p>12 folders.</p> | 1992-1995 |
| H.116       | <p>'Internal waves and related initial-value problems', <i>Dynamics of Atmospheres and Oceans</i> 23, 1996</p> <p>Letter to editor, draft.</p>   | 1994      |
| H.117       | <p>'Reinterpreting the basic theorem of flagellar hydrodynamics', <i>J. Engrg. Math.</i> 30, 1996</p> <p>Typescript drafts, August 1994.</p>   | 1994      |
| H.118-H.119 | <p>'Helical distributions of stokelets', <i>J. Engrg. Math.</i> 30, 1996</p> <p>Correspondence, drafts.</p> <p>2 folders.</p>  | 1995      |
| H.120       | <p>'The lateral line's role in active drag reduction by clupeoid fishes', pp35-48 of <i>Biological Fluid Dynamics</i> (ed C.P. Ellington and T.J. Pedley). Society for Experimental Biology, 1995</p> <p>Typescript draft dated 7 July 1994.</p>   | 1994      |
| H.121       | <p>'Recent advances in interpreting hearing sensitivity', <i>Int. J. Acoust. Vib.</i> 3, 1996</p> <p>Correspondence, drafts.</p>   | 1995      |
| H.122       | <p><i>Collected Papers of Sir James Lighthill</i>, edited by M.</p>  | 1993-1997 |



**Publications, H.1-H.196**

Yousuff Hussaini, Oxford University Press, 1997

Correspondence with editor, permissions requests, letters of thanks from those receiving complimentary copies.

- |              |  |         |
|--------------|--|---------|
| H.123        | 'Extending the fluid mechanics of air-sea interaction to ever higher wind speeds'  | c.1997  |
|              | Typescript of 'James Lighthill's draft contribution to Euromech Newsletter'.   |         |
| <br>         |  |         |
| H.124        | 'A simplified model for spatio-temporal distributions of ocean spray droplets'   | 1997    |
|              | Typescript draft dated 26 March 1997.  |         |
| <br>         |  |         |
| H.125        | A probabilistic model for estimating ocean-spray distribution in extreme Tropical Cyclone winds', <i>Mausam</i> 48, 1997 | 1997    |
|              | Typescript draft dated, 21 May 1997.   |         |
| <br>         |  |         |
| H.126        | 'Fluid Mechanics of Tropical Cyclones', <i>Theor. Comp. Fluid Dyn.</i> 10, 1998  | c.1998  |
|              | Typescript draft.  |         |
| <br>         |  |         |
| H.127-H.127A | 'Ocean Spray and the Thermodynamics of Tropical Cyclones', <i>J. Engrg. Math.</i> , 1998                                 | 1998    |
|              | Typescript drafts and related correspondence.  |         |
|              | 2 folders.   |         |
| <br>         |  |         |
| H.128        | 'A Century of Shock Wave Dynamics', <i>Int. J. Acoust. Vib.</i> , 1998   | c.1998  |
|              | Typescript draft.  |         |
| <br>         |  |         |
| H.129        | 'From good TC track forecasts towards good EW of   | c. 1998 |

**Publications, H.1-H.196**

intensity changes'

Typescript draft, latest bibliographical reference 1998.

H.130	<p>'Magnetohydrodynamics and plasma physics'</p> <p>Manuscript draft beginning 'Readers of this magazine may be interested to hear of the latest activity of the applied research school - by which I mean the research team which is made up of the staff and research students in applied mathematics'.</p>	N.d.
H.131	<p>'Computational Methods in Aeronautical Fluid Dynamics'</p> <p>Typescript draft 'Preface'.</p>	N.d.
H.132	<p>'The doldrums for Cambridge mathematics'</p> <p>Typescript draft ?for publication.</p>	N.d.
H.132A	<p>'A note on Critical Ratios'</p> <p>Typescript draft ? for publication.</p>	N.d.
H.133-H.137	<p>Reviews by Lighthill</p> <p>Typescript drafts, etc.</p> <p>5 folders.</p>	c.1956- c.1986
H.138-H.180	<p><b>OFFPRINTS</b></p> <p>A set of offprints and similar of Lighthill's publications. Incomplete.</p>	<b>1944-1998, n.d.</b>
H.138-H.141	<p>1940s</p> <p>Includes a number of Ministry of Supply Aeronautical</p>	1944-1949

**Publications, H.1-H.196**

Research Council Reports and Memoranda.

4 folders.

H.142-H.146

1950s

5 folders.

H.147-H.155

1960s

9 folders.

H.156-H.164

1970s

9 folders.

H.165-H.167

1980s

3 folders.

H.168-H.179

1990s

12 folders.

H.180

N.d.

**H.181-H.195**

**PUBLICATIONS OF OTHERS**

**1979-1988**

H.181-H.184

'Feedback Systems'

1979-1980

Contents of folder so inscribed divided into four for ease of reference: correspondence and drafts of 'booklet' on feedback systems.

The booklet seems to have been part of an ICM/CTS/UNESCO Booklet programme directed by Alan Rogerson. Lighthill prepared the original outline sketch of the booklet which was then written by Patricia Bennett.



**Publications, H.1-H.196**

H.185-H.195	<p>'Prof Liron's paper Prof MS Longuet-Higgins Dale Martin papers'</p> <p>Contents of box folder so labelled.</p>	1983-1988
H.185-H.188	<p>Typescript drafts of four papers by N. Liron, Department of Mathematics, Technion, Israel Institute of Technology</p> <p>4 folders.</p>	1983
H.189-H.192	<p>Typescript drafts of four 'fascinating "bubbles" papers' by M.S. Longuet-Higgins with letter of thanks from Lighthill</p> <p>4 folders.</p>	1988
H.193-H.195	<p>Typescript draft paper on multidimensional complex variables by E. Dale Martin. NASA Ames Research Centre, Moffett Field, California, two appendices and correspondence between Lighthill and Martin about the paper.</p> <p>3 folders.</p>	1986
H.196	<p><b>CORRESPONDENCE <i>RE</i> PUBLICATIONS</b></p> <p>Miscellaneous shorter correspondence <i>re</i> publications.</p>	1987-1999

**SECTION J**

**LECTURES, J.1-J.130**

**1954-1997,  
n.d.**

A chronological sequence of drafts and related material for Lighthill's public and invitation lectures.

At the end of the chronological sequence is undated material including transparencies and drawings for slides, J.102-J.129. At J.130 is the draft of a radio broadcast by Lighthill presented here for convenience.

J.1-J.15

'(Early) Public Lectures'

N.d., 1954

Contents of folder so inscribed: manuscript and typescript notes and drafts.

The drafts are titled but there is no indication of location or occasion and they are undated. A letter found in the file is dated in 1954. The drafts are presented in the order found.

J.1

'Fundamentals of Science', 'Science & Government' and 'Space'

Manuscript notes for lectures so titled.

J.2

'Frontiers of Applied Mathematics'

Manuscript notes so titled, manuscript working.

J.3

Carbon copy of letter from Lighthill to J.L. Matheson, Engineering Department, [University of Manchester], 6 July 1954

With manuscript inscription at head of first page 'Basis of lecture Squeaks; or why things won't pull smoothly'.

J.4

'The Arts and the Sciences: some comparisons'

Manuscript draft.

J.5

Untitled manuscript draft relating to an occasion at the Accademia delle Scienze di Torino, Italy

In Italian.

**Lectures, J.1-J.130**

- J.6                    'Amateur fluid dynamics, or enlightened water-watching'  
  
Typescript draft with manuscript note at head of first page  
'Memo: NOT again!'  
  
See also J.11.
- J.7                    'Applied mathematics at school and university'  
  
Manuscript draft.
- J.8                    'Cavitation'  
  
Manuscript draft.
- J.9                    'Lecture: Aeronautical Research'  
  
Typescript notes.
- J.10                   'How the air resists the flight of a shell'  
  
Manuscript draft.
- J.11                   'Amateur fluid dynamics, or enlightened water-watching'  
  
Typescript draft, manuscript illustrations.  
  
See also J.6.
- J.12                   'Lecture - Cnoidal Waves and Bores', 'Lecture - Sound  
Generated Aerodynamically' and 'The General Circulation  
of the Atmosphere'  
  
Manuscript drafts so titled.
- J.13                   'Shock wave boundary layer interaction' and 'Non-uniform  
shock propagation'  
  
Manuscript drafts so titled.



## Lectures, J.1-J.130

J.14	'Emmons'	
	Manuscript notes.	
J.15	'Viscosity Effects in High Speed Flow', 'Some notes on turbulence in a stably stratified temperature field' and 'Theoretical considerations on homogeneous turbulence in a stably stratified temperature field'	
	Manuscript notes so titled.	
J.16	'Synopsis of a speech given at the Fourth British Theoretical Mechanics Colloquium', Bristol, 1962	1962
	Title page and 5pp typescript 'synopsis'.	
J.17	'Original drawings for Jet Noise Lecture (Wilbur Wright)'	1963
	Contents of folder so inscribed.	
	See also J.126.	
J.18	'An. Lectures on F.A. & G.F'	1964
	Contents of folder so inscribed: manuscript notes titled 'Generalised Functions and Fourier Analysis' and programme of the Sixteenth British Mathematical Colloquium, Leicester, 31 March - April 4, 1964'.	
	Lighthill was scheduled to talk on 'Asymptotic properties of Fourier integrals and of solutions of partial differential equations'.	
J.19-J.29	'Reynolds Lecture'	N.d.
	Contents of folder so inscribed divided into eleven for ease of reference: typescript draft titled 'Turbulence', figures, manuscript notes and drafts, etc.	
	Papers at J.25-J.27 were found in a folder (within the principal folder) inscribed 'Turbulence' and papers at J.29 were found in a folder (within the principal folder) inscribed 'Draft / Transition Report'.	

**Lectures, J.1-J.130**

/...	Latest bibliographical reference 1969.	
J.30-J.33	<p>'Ocean Science'</p> <p>Contents of folder so inscribed divided into four for ease of reference: manuscript notes, typescript draft etc.</p> <p>At J.30 is Annual Report of the President to the Congress on Marine Resources and Engineering Development, together with the Report of the National Council on Marine Resources and Engineering Development, <i>Marine Science Affairs</i>, April 1971.</p>	N.d.
J.34	<p>'Aquatic Animal Locomotion', Fifteenth Hugh Macmillan Memorial Lecture, Institution of Engineers and Shipbuilders in Scotland, 1973</p> <p>Published text 1973, letter from Lighthill lending a copy of the text, 31 July 1991.</p>	1973, 1991
J.35	<p>'Bridging the chasm separating examination questions (even 'difficult' ones) from real-world problems (even 'easy' ones)', I.M.A. Symposium on Mathematical Skills and Qualities Needed in Graduate Entrants to Industry and Commerce, 3 May 1977</p> <p>Typescript draft.</p>	1977
J.36-J.43	<p>'The Interaction between Mathematics and Society', First Naylor Lecture, London Mathematical Society, 11 March 1977</p> <p>Brief correspondence <i>re</i> arrangements, transparencies etc.</p> <p>8 folders.</p>	1976-1977
J.44	<p>'Turbulence: a general introduction', Warwick Symposium on Dynamical Systems, Stability &amp; Turbulence, 10 December 1979</p> <p>Brief correspondence <i>re</i> arrangements, transparencies and published text.</p>	1978-1979

**Lectures, J.1-J.130**

- |           |  |                  |
|-----------|--|------------------|
| J.45      | <p>'Academic innovation', Inaugural Frederick Constable Lecture, Royal Society of Arts, 27 February 1980</p> <p>Offprint only.</p> <p>See also J.47.</p>   | 1980             |
|           |  |                  |
| J.46-J.47 | <p>'Spoken Version of UCL Past, Present and Future'</p> <p>Contents of folder so inscribed divided into two for ease of reference: letter, schedule etc <i>re</i> visit of Lighthill to Rensselaer Polytechnic Institute, Troy, New York, USA, May 1980; typescript draft of lecture paginated 7-64; proof of Royal Society of Arts Lecture (see J.45).</p>  | 1980             |
|           |  |                  |
| J.48      | <p>Annual North West CEI [Council of Engineering Institutions] Lecture on 'Bloomsbury Engineering', Manchester</p> <p>Typescript draft, undated but Lighthill refers to his lecturing to the Royal Society of Arts 'early last year'.</p>  | [1981]           |
|           |  |                  |
| J.49      | <p>'Is a Pendulum's Motion Predictable?', 'Lunch-Hour Lecture', University College London, 21 October 1986</p> <p>Contents of Lighthill's folder labelled with lecture title as above: brief correspondence, programme of 'Lunch-Hour Lectures', typescript draft of lecture by Lighthill titled 'The recently recognised failure of predictability in Newtonian dynamics', with manuscript revision, etc.</p> <p>Lighthill lectured on 'The recently recognised failure of predictability in Newtonian dynamics' at a Royal Society / British Academy Discussion Meeting, March 1986 (see L.48-L.54).</p> | 1986             |
|           |  |                  |
| J.50      | <p>Untitled talk by Lighthill as guest speaker at Save British Science Society meeting, October 1987</p> <p>Typescript draft.</p>  | 1987             |
|           |  |                  |
| J.51-J.54 | <p>'La Mécanique, trois siècles après Newton', Université Pierre et Marie Curie, Paris, 22 April 1988</p> <p>Correspondence <i>re</i> arrangements, typescript drafts, etc.</p>  | 1988<br><br>/... |



**Lectures, J.1-J.130**

/...	In French.  4 folders.	
J.55	<p>Address to AGM of the Fellowship of Operational Research, 20 January 1989</p> <p>Brief correspondence <i>re</i> arrangements, background information.</p> <p>There is no text for Lighthill's address but there are papers <i>re</i> visit to Université Joseph Fourier, Grenoble (see K.706-K.713).</p> <p>Lighthill offered to talk on his work for the Comité d'Evaluation of French institutions of higher education.</p>	1988-1989
J.56	<p>Speech to Chartered Institute of Building Dinner, Guildhall London, 21 February 1989</p> <p>Typescript and manuscript drafts.</p>	1989
J.57-J.60	<p>'Some challenging new applications for basic mathematical methods in the mechanics of fluids that were originally pursued with aeronautical aims', Inaugural Goldstein Memorial Lecture, Manchester, 11 October 1989</p> <p>Correspondence, typescript drafts, etc.</p> <p>4 folders.</p>	1989
J.61-J.65	<p>'Biomechanics of Hearing Sensitivity', The 1989 Rayleigh Lecture, American Society of Mechanical Engineers, San Francisco, California, 14 December 1989</p>	1989-1990
J.61-J.64	<p>'ASME Lecture'</p> <p>Contents of folder so inscribed divided into four for ease of reference: correspondence <i>re</i> preparation of published version, author's proof, typescript drafts.</p>	
J.65	<p>Typescript draft of lecture found separately.</p>	

**Lectures, J.1-J.130**

- |           |   |           |
|-----------|---|-----------|
| J.66      | 'Asymptotic Behaviour of Anisotropic Wave Systems Stimulated by Oscillating Sources', Fritz Ursell Retirement Meeting, Manchester, 29 April 1990  | 1990      |
|           | Correspondence, typescript draft.   |           |
| J.67-J.68 | 'Research in mechanics during CISM's first two decades - and possible future developments', International Centre for Mechanical Sciences, Udine, Italy, 23 May 1990   | 1990      |
|           | Correspondence, manuscript notes. transparencies etc.   |           |
|           | 2 folders.  |           |
|           | Lighthill gave his lecture at the CISM 20th Anniversary Conference on Mechanics and System and Information Theory.  |           |
| J.69      | 'New discoveries (1987-89) on mechanisms underlying hearing', Canadian Applied Mathematics Society, May 1990  | 1989-1990 |
|           | Typescript draft as prepared for publication.   |           |
| J.70-J.74 | 'Biofluidynamics: a survey', 1991 Joint AMS[American Mathematical Society]-IMS[Institute of Mathematical Statistics]-SIAM [Society for Industrial and Applied Mathematics] Summer Research Conference on Biofluidynamics, University of Washington, Seattle, USA, 7 July 1991 | 1990-1992 |
|           | This was the title of Lighthill's opening lecture. He also gave a specialised lecture on 'Acoustic Streaming in the Ear'.   |           |
| J.70      | '1991 Biofluidynamics - A Survey (Seattle General Lecture)'   | 1991      |
|           | Contents of folder so inscribed: typescript 'top copy' of Lighthill's lecture.  |           |
| J.71-J.74 | 'Biofluidynamics Conference Seattle 1991 6th - 12th July 2 Lectures'  | 1990-1992 |
|           | Contents of folder so inscribed divided into four for ease of   |           |

**Lectures, J.1-J.130**

reference: correspondence *re* arrangements, typescript draft for general lecture with slight manuscript revision, transparencies etc.

- |           |   |           |
|-----------|---|-----------|
| J.75      | ‘Chaos: A Historical Perspective (IUGG symposium talk) in Symposium volume 1991-2’  | 1991      |
|           | Contents of folder so inscribed: brief correspondence <i>re</i> publication of Lighthill's introductory lecture; typescript draft of Lighthill's lecture as prepared for publication.   |           |
| J.76-J.77 | ‘La Mechanique dans la Biologie Moderne (Humphrey Davy Lecture) in <i>La Vie des Sciences</i> 1991-2 (Also Sorbonne Lecture herein)’  | 1991      |
|           | Contents of folder so inscribed divided into two for ease of reference: typescript draft of Lighthill's Humphrey Davy lecture as submitted to <i>La Vie des Sciences</i> and typescript ‘top copy’ of Lighthill's Sorbonne Lecture on the same topic. |           |
|           | In French.  |           |
| J.78-J.80 | ‘Biomechanics of Hearing Sensitivity’, Ascher H. Shapiro Lecture in Fluid Mechanics, Massachusetts Institute of Technology, USA, 19-23 February 1992  | 1991-1992 |
|           | Contents of Lighthill's folder divided into three for ease of reference; correspondence <i>re</i> arrangements, background papers <i>re</i> visit to MIT.   |           |
|           | No text was found for Lighthill's lecture.  |           |
| J.81-J.83 | ‘A General Introduction to Aeroacoustics and Atmospheric Sound’, 2nd International Congress on Recent Developments in Air- and Structure-Borne Sound and Vibration, Auburn University, Alabama, USA, March 1992                                       | 1992      |
|           | Correspondence <i>re</i> arrangements, transparencies for Lighthill's lecture.  |           |
|           | 3 folders.  |           |
| J.84      | ‘Aerodynamic Noise’, Noise-93 Conference, St Petersburg, Russia   | 1992-1993 |



**Lectures, J.1-J.130**

Contents of Lighthill's folder: brief correspondence, typescript 'top copy' of Lighthill's paper.

J.85

## 'Aeroacoustical Uses of Green's Functions'

1993

Contents of Lighthill's folder: letter *re* publication, typescript 'top copy' of Lighthill's paper.

Lighthill gave the paper at a meeting at Nottingham to mark the bicentenary of the mathematician George Green.

J.86-J.92

'Hurricane Dynamics Lecture at Natural History Museum,  
[London] 12th October 1993'

1993-1996

Contents of folder so inscribed divided into seven for ease of reference: correspondence and papers including transparencies.

In addition to the Natural History Museum occasion, there are papers relating to a number of other meetings including 'ICTAM '95 Symposium on Large Scale Hazards' and the International Symposium on Theoretical and Computational Fluid Dynamics, Florida State University, Tallahassee, 6-8 November 1996 which was held in Lighthill's honour.

Papers presented in order found.

J.92A

## 'Civil Engineers UK Links to Global Endeavour'

1993

Contents of folder so inscribed: typescript draft 'UK Links to Global Endeavour' and letter to President-Elect of the Institution of Civil Engineers, 8 November 1993.

May relate to presentation by Lighthill at an Institution of Civil Engineers occasion.

J.93

'Fluid Mechanics and Aeronautics', Institute of Physics  
Annual Congress, 11 April 1994

1994

Transparencies etc.

Lighthill's paper was part of a 'Rayleigh Centenary Celebration' at the Congress.

**Lectures, J.1-J.130**

J.94	<p>'IMA [Institute of Mathematics and its Applications] Fourier Paper'</p> <p>Contents of folder so inscribed: transparencies, manuscript draft, and typescript 'requested write-up' of lecture suitable for IMA Bulletin.</p> <p>Lighthill's lecture was titled 'Can Fourier Asymptotics be stood on its head?'</p>	1994
J.95	<p>'Flows around spinning spirochetes', British Applied Mathematics Colloquium, Loughborough University, 1996</p> <p>Abstract and transparencies.</p>	1996
J.96	<p>'Typhoons, Hurricanes and Fluid Mechanics', Closing Lecture, ICTAM Congress, Kyoto, Japan, August 1996</p> <p>Contents of Lighthill's folder 'Cyclone Paper for Japan': correspondence and typescript draft of Lighthill's lecture.</p>	1996
J.97-J.100	<p>'Typhoons, Hurricanes and Fluid Mechanics', The 1996-97 Di Prima Memorial Lecture, Rensselaer Polytechnic Institute, Troy, New York, USA, 27 February 1997</p> <p>Transparencies.</p> <p>4 folders.</p>	1997
J.101	<p>'Ocean Spray modelling for Tropical Cyclone wind speeds', Fluid Dynamics Symposium, Twente University, Netherlands, 11 April 1997</p> <p>Contents of folder inscribed 'Twente Paper': typescript draft of paper given by Lighthill on the occasion of the retirement of Leen van Wijngaarden.</p>	1997
J.102-J.105	<p>'Acoustic Streaming'</p> <p>Transparencies etc.</p> <p>4 folders.</p>	N.d.

**Lectures, J.1-J.130**

J.106	'Aeroacoustics Transparencies for First Projector'  Contents of folder so inscribed.	N.d.
J.107	'Aeroacoustics Transparencies for Second Projector'  Contents of folder so inscribed.	N.d.
J.108	'Bacterial Biofluidynamics'  Contents of folder so inscribed: transparencies.	N.d.
J.109-J.110	Transparencies for lecture on biomechanics of hearing sensitivity  2 folders.	N.d.
J.111-J.113	'Transparencies for biomechanics of hearing sensitivity'  Contents of folder so inscribed divided into three for ease of reference.	N.d.
J.114	'Biomécanique de la Nage chez les Bactéries'  Transparencies.	N.d.
J.115-J.116	'Transparencies for A Century of Shock Wave Dynamics'  2 folders.	N.d.
J.117	'Herring: Transparencies for 2nd Projector'  Contents of folder so inscribed.	N.d.
J.118	Transparencies, manuscript notes <i>re</i> herring lecture  Found loose.	N.d.



**Lectures, J.1-J.130**

- |             |   |              |
|-------------|---|--------------|
| J.119-J.121 | <p>'Old Hydrodynamics of Hearing Transparencies'</p> <p>Contents of folder so inscribed divided into three for ease of reference.</p>   | N.d.         |
| J.122       | <p>Transparencies for lecture on oceans</p> <p>Contents of untitled folder.</p>   | N.d.         |
| J.123-J.124 | <p>Miscellaneous transparencies, manuscript notes</p> <p>2 folders.</p> <p>Topics include aeroacoustics and fish locomotion.</p>  | N.d.         |
| J.125       | <p>'V. Surikov'</p> <p>Volume of reproductions of paintings of the nineteenth century Russian artist Vasily Surikov between the pages of which have been inserted transparencies for lecture on ?biofluidynamics.</p> <p>An inscription at the front indicates that the volume was a gift from 'Mrs Shurigina' to Lighthill and his wife in 1964.</p> | N.d.         |
| J.126       | <p>'W.W. [Wilbur Wright] lecture slide material'</p> <p>Contents of envelope so inscribed: 'Note on the Swimming of Slender Fish', Royal Aircraft Establishment (Farnborough) technical memorandum by Lighthill, March, 1960; slide boards, manuscript drafts, etc.</p> <p>See J.17.</p>  | 1960, [1963] |
| J.127       | <p>'Negs. For Figs. Novosibirsk Lectures'</p> <p>8 negatives in wrapper so inscribed.</p> <p>Lighthill visited the USSR including Novosibirsk in June 1965. See L.6-L.16.</p>   | [1965]       |

**Lectures, J.1-J.130**

- |       |  |             |
|-------|--|-------------|
| J.128 | ‘Ludwig Prandtl Lecture ... Diagrams’  | N.d.        |
|       | Contents of envelope so inscribed: 11 slide boards. Undated but further inscription ‘Mrs Harris Director’s office’ implies documents date from Lighthill’s Directorship of the Royal Aircraft Establishment, Farnborough, 1959-1964. |             |
| J.129 | 6 drawings for slides with instructions for their preparation for unidentified lecture   | N.d.        |
| J.130 | ‘A Boarding-school for the Mathematically Gifted’  | N.d. [1965] |
|       | Typescript draft for radio broadcast.  |             |
|       | See also L.12-L.16.  |             |

**SECTION K**

**SOCIETIES AND ORGANISATIONS, K.1-K.713**

**1962-1998**

K.1	ACADEMIA EUROPAEA
K.2	AERONAUTICAL RESEARCH COUNCIL
K.3-K.13	INDIAN INSTITUTE OF TECHNOLOGY
K.14-K.100	INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS
K.101-K.119	INTERNATIONAL COMMISSION ON ACOUSTICS
K.120-K.172	INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION (ICMI)
K.173-K.463	INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS
K.464-K.583	INTERNATIONAL UNION OF THEORETICAL AND APPLIED MECHANICS (IUTAM)
K.584-K.590	JOINT MATHEMATICAL COUNCIL OF THE UNITED KINGDOM
K.591-K.602	MATHEMATICAL ASSOCIATION
K.603-K.609	POST OFFICE BOARD
K.610-K.667	ROYAL SOCIETY
K.668-K.685	SCIENCE RESEARCH COUNCIL / SCIENCE AND ENGINEERING RESEARCH COUNCIL
K.686-K.699	UNITED KINGDOM ATOMIC ENERGY AUTHORITY
K.700-K.705	UNITED KINGDOM COORDINATION COMMITTEE FOR INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION
K.706-K.713	UNIVERSITÉ SCIENTIFIQUE, TECHNOLOGIQUE ET MEDICALE DE GRENOBLE



**Societies and organisations, K.1-K.713**

<b>K.1</b>	<b>ACADEMIA EUROPAEA</b>	<b>1989-1991</b>
	Correspondence and papers. Includes certificate of membership.	
<b>K.2</b>	<b>AERONAUTICAL RESEARCH COUNCIL</b>	<b>1964</b>
	Report of the Working Party on Short Range Minimum Cost Air Transport.  The working party was chaired by Lighthill. See also L.1-L.5.	
<b>K.3-K.13</b>	<b>INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI</b>	<b>1982-1984</b>
	Correspondence and papers, principally <i>re</i> visit to the UK by M.P. Singh, head of the Centre for Atmospheric and Fluids Sciences IIT in 1983 and visit to the IIT by Lighthill in 1984.  In India Lighthill gave a paper on 'The Potential of Modern Large Computer Facilities' at a Symposium on Climate and its Variability. He also agreed to give a second 'talk' on 'Waves and the Hydrodynamic Loading of Offshore Structures'.	
<b>K.3</b>	November 1982 - February 1983  Includes programme for M.P. Singh in the UK.	
<b>K.4</b>	June-July 1983	
<b>K.5</b>	'Centre for Advanced Studies in Atmospheric & Fluid Sciences A brief Review of Research and Developments in Atmospheric Sciences'	May 1983

**Societies and organisations, K.1-K.713**

K.6	August - October 1983	
K.7	November - December 1993	
K.8	January 1984  Includes 'Report on the visit to India of Dr T.J. Pedley, 23 October - 17 November 1983' to the British Council and copied to Lighthill.	
K.9-K.10	February 1984  2 folders.  Includes programme for symposium on climate and its variability (K.9).	
K.11	'The Potential of Modern Large Computer Facilities'  Typescript draft of Lighthill's symposium paper.	
K.12	February - May 1984  Includes 'Report to ... British Council by Sir James Lighthill on his visit to IIT, Delhi on 25, 26 and 27 February 1984'.	
K.13	'Centre for Advanced Studies in Atmospheric and Fluids Sciences Indian Institute of Technology, New Delhi A brief report on studies related to Medium Range Weather Forecasting and Climate Variability'	N.d.
K.14-K.100	<b>INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS</b>	<b>1962-1992</b>

The Institute of Mathematics and its Applications (IMA) came into being on 23 April 1964. Lighthill served as its first President.

**Societies and organisations, K.1-K.713**

K.14-K.65	Correspondence and papers	
K.66-K.93	IMA Council	
K.94-K.98	IMA Conferences	
K.99-K.100	'IMA Book'	
<b>K.14-K.65</b>	<b>Correspondence and papers</b>	<b>1962-1992</b>
K.14-K.15	'IMA (Earliest)'	1962-1964
	Contents of folder so inscribed divided into two for ease of reference.	
	Includes 'Synopsis of speech given at the Fourth British Theoretical Mechanics Colloquium, Bristol, 1962' (K.14). The title page presents the following summary: 'This speech, which included a suggestion of the possible usefulness of a professional institution serving the needs of British applied mathematicians, is being circulated as a basis for discussion on Wednesday, 4th April, 1963 at the Fifth British Theoretical Mechanics Colloquium in Liverpool'.	
K.16-K.20	'I.M.A. Memorandum & Articles of Association'	1963-1965, n.d.
	Contents of folder so inscribed.	
K.16	IMA Memorandum and Articles of Association	1964
K.17	IMA booklets for 1964 and 1965	
K.18	Mathematical Association booklets <i>re</i> diploma and advanced diploma in mathematics	1963, 1964 and n.d.
	3 booklets.	
K.19	Bristol College of Science and Technology College Diploma in Mathematics (Revised October, 1963)	



**Societies and organisations, K.1-K.713**

K.20	Research in Mathematical Physics at Aldermaston  UKAEA Weapons Group printed booklet.	N.d.
K.21-K.26	'IMA lectures during my presidency'  Contents of folder so inscribed: principally correspondence with proposed speakers <i>re</i> arrangements for 1966 IMA programme of lectures.  The contents of the folder were divided by the month in which the lectures were delivered.	1965-1966
K.21	'Jan'	
K.22	'Feb', 'Mar'	
K.23	'May', 'June'	
K.24	'Sept', 'Oct'	
K.25	'Nov', 'Dec'	
K.26	'First Enquiries'	
K.27-K.39	'I.M.A. Correspondence (during my Presidency 1964-1966)'  Contents of folder so inscribed.	1964-1966
K.27	January - November 1964	
K.28	December 1964	
K.29	January 1965	

**Societies and organisations, K.1-K.713**

K.30 February - April 1965

K.31 May 1965

Includes Mathematical Association of America Committee on the Undergraduate Program in Mathematics 'Recommendations on the Undergraduate Mathematics Program for Work in Computing', May 1964 sent to Lighthill May 1965.

K.32 June - September 1965

K.33 October 1965

K.34 November - December 1965

Includes Advance Programme of the Third Congress of the International Federation of Automatic Control'. London, 20-25 June 1966

K.35 January 1966

K.36 February 1966

Includes 'Remarks by the President on presenting a certificate of election to the Inst. first Honorary Fellow Sir Geoffrey Taylor'.

K.37 March 1966

K.38 April - May 1966

K.39 July - November 1966

**Societies and organisations, K.1-K.713**

K.40-K.45	'IMA Correspondence 1976-79'	1976-1979
	Contents of folder so inscribed.	
K.40	December 1976 - March 1977	
K.41	April - May 1977	
K.42	June - November 1977	
	Includes copy of speech which Lighthill delivered on 31 May 1977 on the occasion of J.H. Wilkinson being conferred the Honorary Fellowship of the IMA, and copy of lecture by Lighthill at IMA symposium adapted for publication in <i>Times Higher Educational Supplement</i> , June 1977.	
	Lighthill's IMA lecture was titled 'Bridging the Chasm Separating examination questions (even 'difficult' ones) from real-world problems (even 'easy' ones)'	
K.43	January - December 1978	
K.44	January - June 1979	
K.45	July - December 1979	
K.46-K.59	'IMA'	1980-1988
	Contents of folder so inscribed.	
K.46	January 1980	
K.47	February - April 1980	
K.48	June - November 1980	



**Societies and organisations, K.1-K.713**

K.49	1981-1982	
K.50	January - June 1983	
K.51	July - November 1983	
K.52	1984	
K.53	1985	
	Includes Lighthill's contribution to <i>IMA Bulletin</i> twenty-first anniversary issue.	
K.54	1986	
K.55	January - June 1987	
K.56	July - September 1987	
K.57	October - December 1987	
K.58	January - June 1988	
K.59	July - December 1988	
	Includes article by Lighthill for special Silver Jubilee issue of the <i>Bulletin</i> .	
K.60-K.65	'I.M.A. 1989 onwards'	1989-1992
	Contents of folder so inscribed.	

**Societies and organisations, K.1-K.713**

K.60	February - June 1989  Includes Lighthill's obituary of Sydney Goldstein for the <i>IMA Bulletin</i> (see also K.61).	
K.61	July - December 1989	
K.62	January - June 1990	
K.63	July - September 1990	
K.64	November-December 1990	
K.65	1991-1992	
<b>K.66-K.93</b>	<b>IMA Council</b>	<b>1979-1989</b>
K.66-K.70	Contents of untitled folder  Correspondence and papers <i>re</i> Council business.	1979-1988
K.66	September, November 1979	
K.67	1981	
K.68	1982-1985	
K.69	1986	
K.70	1987-1988	

**Societies and organisations, K.1-K.713**

K.71-K.83	Agenda, minutes and papers for Council meetings	1982-1986
K.71-K.74	1982 4 folders.	
K.75-K.78	1983 4 folders.	
K.79-K.80	1984 2 folders.	
K.81-K.82	1985 2 folders.	
K.83	1986	
K.84-K.93	Agenda, minutes and papers for Council meetings Contents of untitled folder.	1986-1989
K.84	1986	
K.85-K.87	1987 3 folders.	
K.88-K.92	1988 5 folders.	
K.93	1989	



**Societies and organisations, K.1-K.713**

<b>K.94-K.98</b>	<b>IMA Conferences</b>	<b>1965-1979</b>
K.94-K.96	<p>Symposium on 'gains to mathematics teaching from a decision to go metric', Imperial College London, 12 January 1966</p> <p>Correspondence <i>re</i> arrangements, programme, manuscript and typescript drafts of Lighthill's introductory remarks.</p> <p>3 folders.</p>	1965-1966
K.97	<p>Conference on fisheries mathematics, Aberdeen, 24-26 November 1975</p> <p>Correspondence <i>re</i> arrangements, publication of proceedings, programme, abstract of Lighthill's paper. See also L.38-L.44.</p>	1975-1979
K.98	<p>'IMA Symposium 1979'</p> <p>Correspondence and papers <i>re</i> arrangements.</p> <p>Includes meetings on power from sea waves and road traffic and land transport planning.</p>	1978-1979
<b>K.99-K.100</b>	<b>'IMA Book'</b>	<b>1975-1977</b>
	<p>Correspondence and papers <i>re</i> IMA project for a book published by Penguin on the 'Newer Uses of Mathematics'.</p> <p>2 folders.</p>	
<b>K.101-K.119</b>	<b>INTERNATIONAL COMMISSION ON ACOUSTICS</b>	<b>1978-1989</b>
	<p>Correspondence and papers.</p> <p>Lighthill was an associate member of the Commission representing the International Union of Theoretical and Applied Mathematics (IUTAM).</p>	

**Societies and organisations, K.1-K.713**

K.101-K.109	<p>'I.C.A. 10th International Congress Sydney, July 9th to July 16th, 1980'</p> <p>Contents of folder so labelled.</p> <p>Lighthill attended three meetings of the Commission during the Congress and gave two papers at the Congress under the general heading 'Energy Flow in the Cochlea'.</p>	1978-1980
K.101	<p>Unconfirmed minutes of meeting of the Commission, Brussels, 22-23 May 1978</p> <p>Lighthill was welcomed as an associate member.</p>	
K.102	<p>List of officials of national and international organizations in acoustics</p>	
K.103-K.108	<p>Correspondence and papers <i>re</i> 10th ICA Congress and Lighthill's visit to Australia</p> <p>6 folders.</p>	1979-1980
K.109	<p>Invitation to International Congress on Acoustics, Toronto, Canada, 1986.</p>	
K.110-K.112	<p>International Commission on Acoustics Paris - July 20th / 27th 1983'</p> <p>Contents of folder so labelled divided into three for ease of reference.</p> <p>Correspondence and papers <i>re</i> 11th International Congress of Acoustics, Paris, 20-27 July 1983 and meeting of Commission during the Congress</p>	1980-1983
K.113	<p>'International Commission on Acoustics Thursday / Friday April 5th and 6th 1984 Leuven - Belgium'</p> <p>Contents of folder so labelled, also inscribed 'Provost did not attend': correspondence and papers <i>re</i> meeting of Commission.</p>	1983-1984

**Societies and organisations, K.1-K.713**

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|-------------|--|------------------|
| K.114       | 'International Commission on Acoustics Meeting in Oslo June 17/18 1985'  | 1984-1985        |
|             | Contents of folder so labelled, also inscribed 'Provost not attending': correspondence and papers <i>re</i> Commission meeting.  |                  |
| K.115-K.116 | '12th International Congress on Acoustics, Toronto, Canada, July 24th - August 1st, 1986'  | 1984-1986        |
|             | Contents of folder so labelled divided into two for ease of reference: correspondence and papers <i>re</i> Congress and meeting of the Commission during the Congress. |                  |
| K.117       | 'ICA Meeting Rome 13/14 April 1987'  | 1986-1988        |
|             | Contents of folder so inscribed: correspondence and papers <i>re</i> 1987 Rome meeting of the International Commission on Acoustics.                                   |                  |
| K.118       | Unconfirmed minutes of meeting held in Rome 23 and 30 July 1986 ?misdated for 1987   |                  |
| K.119       | '13th International Congress on Acoustics, 24 - 31 August 1989, Belgrade, Yugoslavia'  | 1988-1989        |
|             | Circulars, 1 and 2 etc.  |                  |
| K.120-K.172 | <b>INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION (ICMI)</b>   | <b>1969-1984</b> |
|             | Devoted to mathematical education at all levels the ICMI is a Commission of the International Mathematical Union. Lighthill was President of the ICMI 1971-1974.       |                  |
| K.120-K.138 | General correspondence and papers  |                  |
| K.139-K.140 | 2nd International Congress on Mathematical Education, Exeter, 29 August - 2 September 1972   |                  |



**Societies and organisations, K.1-K.713**

K.141-K.150	'ICMI Finances'	
K.151-K.159	ICMI Bulletins	
K.160-K.162	Committee on the Teaching of Science	
K.163-K.172	Printed and duplicated background material	
<b>K.120-K.138</b>	<b>General correspondence and papers</b>	<b>1969-1979</b>
K.120-K.130	'ICMI 1970-1971'  Contents of folder so inscribed divided into eleven for ease of reference.	1969-1972
K.131-K.137	'ICMI File less recent correspondence'  Contents of folder so inscribed divided into seven for ease of reference.	1971-1976
K.138	'Recent ICMI Correspondence'  Contents of folder so inscribed.	1977-1979
<b>K.139-K.140</b>	<b>2nd International Congress on Mathematical Education, Exeter, 29 August - 2 September 1972</b>  Correspondence <i>re</i> arrangements, lists of working groups and their chairmen, programme and Lighthill's presidential address.  2 folders.  Lighthill chaired the organising committee.	<b>1972</b>
<b>K.141-K.150</b>	<b>'ICMI Finances'</b>  Contents of folder so inscribed divided into ten for ease of	<b>1972-1978</b>

**Societies and organisations, K.1-K.713**

reference: financial papers relating to 1972 Exeter Congress, ICMI accounts 1971-1974, etc.

<b>K.151-K.159</b>	<b>ICMI Bulletins</b>	<b>1972-1978</b>
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For Bulletin 11 December 1978 see K.161.

K.151	Number 1	October 1972
K.152	Number 2	November 1973
K.153	Number 3	April 1974
K.154	Number 4	November 1974
K.155	Number 6	October 1975
K.156	Number 7	April 1976
K.157	Number 8	December 1976
K.158	Number 9	June 1977
K.159	Number 10	March 1978

<b>K.160-K.162</b>	<b>Committee on the Teaching of Science</b>	<b>1978-1979</b>
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Contents of folder inscribed 'CTS [Committee on the Teaching of Science of the International Council of

### **Societies and organisations, K.1-K.713**

Scientific Unions]/ ICMI / ICPE [International Committee on Physics Education] / UNESCO Programme (recent)' divided into three for ease of reference: correspondence and papers *re* programme of cooperation between science teachers and mathematics teachers.

**K.163-K.172                      Printed and duplicated background material                      1970-1984**

Includes papers relating to mathematics education in Bangladesh, Bulgaria, India, Luxembourg and Britain.

**K.173-K.463                      INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS                      1983-1998**

K.173-K.181                      General correspondence and papers

K.182-K.463                      Special Committee International Decade for Natural Disaster Reduction (SC-IDNDR)

**K.173-K.181                      General correspondence and papers                      1983-1988**

Contents of Lighthill's 'ICSU' file divided into nine for ease of reference: newsletters, committee papers, etc.

**K.182-K.463                      Special Committee International Decade for Natural Disaster Reduction (SC-IDNDR)                      1988-1998**

The United Nations General Assembly designated the 1990s an International Decade for Natural Disaster Reduction in Resolutions 42/169 (December 1987) and 43/202 (February 1989). At the 1990 ICSU General Assembly, Sofia, Bulgaria, 1-5 October, a new Special Committee of ICSU was set up to oversee ICSU contributions to the IDNDR. The first meeting of the Special Committee was held in Sofia, 5 and 6 October 1990. Lighthill was chairman of the Special Committee until 1 July 1995 when he was succeeded by H. Th. Verstappen. He continued as a member of the Committee.

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**Societies and organisations, K.1-K.713**

/... See also M.294-M.302.

K.182-K.204	Reports
K.205-K.286	Proposals, projects and programmes
K.287-K.451	Meetings
K.452-K.457	Lectures
K.458-K.463	Background papers

K.182-K.204	<b>Reports</b>	1990-1998
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K.182-K.191	'SC-IDNDR Reports'	1990-1994
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Contents of folder so inscribed divided into ten for ease of reference.

At K.189-K.191 are transparencies for presentation or presentations by Lighthill.

K.192	'STC Reports on Demonstration Projects 1992'
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Contents of folder so inscribed: 'top copies' and 'superseded' versions of reports to IDNDR Science and Technical Committee.

K.193-K.204	'Reports: 21.9.93 to date of death'	1993-1998
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Papers so labelled (see K.199). Lighthill died 17 July 1998.

12 folders.

At K.204 are draft articles by Lighthill including one on hurricane dynamics for UCL Science.

K.205-K.286	<b>Proposals, projects and programmes</b>	1989-1995
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An alphabetical sequence arranged by folder title.

**Societies and organisations, K.1-K.713**

K.205-K.209	<p>'Avalanches also COSTED [Committee on Science and Technology in Developing Countries of ICSU] and Morocco Center and Education'</p> <p>Contents of folder so inscribed divided into five for ease of reference: correspondence and papers.</p>	1991-1993
K.210-K.214	<p>'Famine'</p> <p>Contents of folder so inscribed divided into five for ease of reference: correspondence and papers.</p>	1991-1994
K.215-K.223	<p>'Floods'</p> <p>Contents of folder so inscribed divided into nine for ease of reference: correspondence and papers.</p>	1991-1993
K.224	<p>'Forecasts and Warnings'</p> <p>Contents of folder so inscribed: correspondence and drafts by Lighthill of 'A general introduction to the UK's proposed IDNDR Flagship Project 'Forecasts and Warnings'.</p>	1995
K.225-K.236	<p>'G-SHAP [Global Seismic Hazard Assessment Program]'</p> <p>Contents of folder so inscribed divided into twelve for ease of reference: correspondence and papers.</p> <p>The Global Seismic Hazard Assessment Program was a contribution of the International Lithosphere Program to the UN International Decade for Natural Disaster Reduction.</p>	1992-1993
K.237-K.247	<p>'ILP [International Lithosphere Program] Mapping Project Related to Global Seismic Hazard Assessment'</p> <p>Contents of folder so inscribed divided into eleven for ease of reference: correspondence and papers</p>	1991-1994
K.248-K.251	<p>'Intermediate-Term Earthquake Prediction'</p> <p>Contents of folder so inscribed divided into four for ease of reference: correspondence and papers.</p>	1989-1993

**Societies and organisations, K.1-K.713**

K.252-K.257	'Megacities'	1991-1993
	Contents of folder so inscribed divided into six for ease of reference: correspondence and papers.	
K.258-K.260	'Negatively Answered Proposals'	1991
	Contents of folder so inscribed divided into three for ease of reference: correspondence and papers.	
K.261	'Snow & Ice: Avalanches'	1991
	Contents of folder so inscribed: correspondence.	
K.262-K.264	'Tropical Cyclone Disasters IDNDR Proposals (& Correspondence) 1990'	1990-1991
	Contents of folder so inscribed divided into three for ease of reference: correspondence and papers.	
K.265-K.266	'URSI [Union Radio-Scientifique Internationale] <i>re</i> EM Precursors'	1990-1991
	Contents of folder so inscribed divided into two for ease of reference: principally duplicated and printed papers <i>re</i> the importance of EM effects associated with earthquakes and volcanic eruptions.	
K.267-K.277	'Volcanoes the IAVCEI [International Association of Volcanology and Chemistry of the Earth's Interior] Project'	1990-1994
	Contents of folder so inscribed divided into eleven for ease of reference: correspondence and papers.	
K.278-K.286	'WMO [World Meteorology Organisation] / ICSU Programme'	1991-1993
	Contents of folder so inscribed, also labelled 'ICSU / IDNDR Meteorology / Oceans', divided into nine for ease of reference: correspondence and papers.	



**Societies and organisations, K.1-K.713**

K.287-K.451	<b>Meetings</b>	1991-1996
K.287-K.300	Scientific and Technical Committee (STC) of IDNDR, Geneva, 16-20 March 1992  Contents of folder so inscribed 'STC - 3rd Session Geneva 1992 16th-20th March' divided into fourteen for ease of reference: correspondence and papers.	1992
K.301-K.303	Fifth Meeting of the ICSU Special Committee for IDNDR, California Institute of Technology, Pasadena, California, 18-19 August 1992  Contents of Lighthill's folder divided into three for ease of reference: correspondence and papers.	1991-1992
K.304-K.354	ICSU / WMO International Symposium on Tropical Cyclone Disasters, Beijing, 12-16 October 1992  The meeting was characterised in invitations as 'part of a concerted programme aimed at improving the accuracy of advance warning of Tropical Cyclone disasters ... so that populations under threat may learn to rely on them and consequently follow measures recommended for their protection'. The meeting was chaired by Lighthill representing ICSU and Zheng Zhemin (China). See also K.452-K.456.	1991-1992
K.304-K.338	Contents of 'Malvern expanding wallet': correspondence <i>re</i> arrangements for symposium with Lighthill's co-chairman, Z. Zheng and, in an alphabetical sequence, symposium participants.	1991-1992
K.304-K.307	Correspondence with Zheng and others <i>re</i> arrangements.  4 folders.	
K.308	B. - C.	
K.309-K.310	D.  2 folders.	

**Societies and organisations, K.1-K.713**

K.311-K.312      E.  
2 folders.

K.313              F.

K.314              G.

K.315-K.318      H.  
4 folders.

K.319              J.

K.320              K.

K.321              L.

K.322-K.323      Mc.  
2 folders.

K.324              M.

K.325              N. - O.

K.326-K.328      P.  
3 folders.

K.329              Q.

**Societies and organisations, K.1-K.713**

K.330	R.	
K.331-K.332	S. 2 folders.	
K.333	T.	
K.334	V.	
K.335	W.	
K.336	Y.	
K.337-K.338	Z. 2 folders.	
K.339-K.343	'Beijing 1992 Symposium (12-16 Oct.)'  Contents of folder so inscribed divided into five for ease of reference: copies of correspondence <i>re</i> arrangements, report to ICSU and WMO on symposium.	1991-1992
K.344-K.354	'TCD[Tropical Cyclone Disaster] '92'  Contents of folder so inscribed divided into eleven for ease of reference: correspondence and papers.  The papers which include extensive manuscript notes and drafts by Lighthill were found in considerable disorder.	1991-1992
K.355	Contours of Curriculum Development for N.D.R., Calcutta, 18-20 November 1992  Contents of Lighthill's folder: correspondence arising and Lighthill's 'A brief summary of the conclusions of the seminar Contours of Curriculum Development for Natural	1992



### Societies and organisations, K.1-K.713

Disaster Reduction (Calcutta, 18 to 20 November 1992)'.  
See also L.81-L.84.

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|-------------|--|-----------|
| K.356-K.376 | Fourth Meeting of the IDNDR Science and Technical Committee, New Delhi, India, 1-5 February 1993   | 1992-1993 |
|             | Contents of folder inscribed with the title, location and dates of meeting divided into twenty-one for ease of reference: correspondence, reports and duplicated and printed background material.  |           |
| K.377-K.382 | Seventh Meeting of SC-IDNDR, Santiago, Chile, 4 October 1993   | 1992-1993 |
|             | Contents of folder inscribed 'SC-IDNDR 7th Meeting' divided into six for ease of reference: correspondence and Lighthill's manuscript notes and report.  |           |
| K.383-K.401 | '8th Meeting (and 9th Meeting) of SC-IDNDR'  | 1991-1994 |
|             | Contents of folder so inscribed divided into nineteen for ease of reference: correspondence <i>re</i> arrangements and arising, reports, manuscript notes, background papers.  |           |
|             | The eighth meeting of the Special Committee was held at ICSU headquarters, Paris, 31 January 1994, The ninth meeting was held during the World Conference on Natural Disaster Reduction, Yokohama, Japan, on 25 May 1994.  |           |
| K.402-K.432 | World Conference on Natural Disaster Reduction, Yokohama, 23-27 May 1994   | 1993-1995 |
|             | Contents of two files inscribed 'I.D.N.D.R Conference Yokohama': correspondence and papers <i>re</i> arrangements for ICSU's contribution to the conference, and arising; reports; duplicated and printed background material.   |           |
|             | The ICSU Special Committee for IDNDR, representing both the ICSU and the global engineering organisations (WFEO/UATI) organised technical committee session B on 'Hazard Resistant Structures'. Lighthill was the session moderator and presented a brief session summary (K.425). |           |
|             | 29 folders and 2 printed volumes.  |           |

**Societies and organisations, K.1-K.713**

K.433-K.451	<p>Tenth Meeting of the ICSU SC-IDNDR, Paris, 2-3 February 1995</p> <p>Contents of Lighthill's folder inscribed with meeting title, location and date, divided into nineteen for ease of reference: correspondence and papers <i>re</i> meeting and arising, reports and duplicated and printed background papers.</p>	1991-1996
K.452-K.457	<b>Lectures</b>	1992-1995
K.452-K.456	<p>'Lectures: Broad Overview (Beijing Symposium)'</p> <p>Contents of folder so inscribed divided into five for ease of reference: correspondence and drafts for contributions by Lighthill to ICSU / WMO International Symposium on Tropical Cyclone Disasters, Beijing, China, 12-16 October 1992 (see K.304-K.354).</p> <p>Lighthill provided a broad introduction to the symposium's objectives and final recommendations as well as presenting a joint lecture with B. Johns 'Modelling of Storm Surges in the Bay of Bengal'.</p>	1992-1993
K.457	<p>'Large Scale Hazards consequent on dynamical behaviour of the earth's fluid envelope', International Congress for Industrial and Applied Mathematics Symposium on Large Scale Hazards, Hamburg, Germany, July 1995</p> <p>Typescript draft of lecture as prepared for publication, letter <i>re</i> publication of lecture.</p>	1995
K.458-K.463	<p><b>Background papers</b></p> <p>Principally educational material <i>re</i> earthquakes.</p> <p>6 folders.</p>	1988-1995
K.464-K.583	<p><b>INTERNATIONAL UNION OF THEORETICAL AND APPLIED MECHANICS (IUTAM)</b></p> <p>Lighthill served the IUTAM in a variety of capacities over</p>	1966-1994

**Societies and organisations, K.1-K.713**

many years. He was President of the Union 1984-1988 and then Vice-President for a further four years.

K.464-K.517	General correspondence and papers
K.518-K.541	Bureau and committees
K.542-K.568	Meetings
K.569-K.583	Miscellaneous

<b>K.464-K.517</b>	<b>General correspondence and papers</b>	<b>1976-1992</b>
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Contents of Lighthill's IUTAM correspondence files.

K.464-K.465	1976 2 folders.
K.466-K.468	1977 3 folders.
K.469-K.470	1978 2 folders.
K.471	1979-1980
K.472	1981
K.473	1982
K.474	1983

**Societies and organisations, K.1-K.713**

K.475-K.480	1984 6 folders.
K.481-K.485	1985 5 folders.
K.486-K.490	1986 5 folders.
K.491-K.495	1987 5 folders.
K.496-K.506	1988 11 folders.
K.507-K.510	1989 4 folders.
K.511-K.514	1990 4 folders.  Includes (K.512) 'A tentative commentary on some problems that could be involved in attempting to set up a European Centre of Mechanics in one particular country of Europe'.
K.515-K.516	1991 2 folders.
K.517	1992



**Societies and organisations, K.1-K.713**

<b>K.518-K.541</b>	<b>Bureau and committees</b>	<b>1977-1988</b>
K.518-K.525	<p>'IUTAM Panel on Fluid Mechanics Symposia - 1978'</p> <p>Contents of folder so inscribed divided into eight for ease of reference: correspondence and papers.</p> <p>Includes manuscript and typescript drafts of Lighthill's 'First Report of the IUTAM Panel on Fluid Mechanics Symposia' (K.521), 'the agreed 1980 Report' of the panel (K.524) and 'A Very Preliminary First Draft of a possible 1982 Report' of the panel (K.525).</p> <p>Lighthill was chairman of the Committee.</p>	1977-1982
K.526-K.528	<p>'IUTAM Bureau ... Meetings in Grenoble August 1985'</p> <p>Contents of folder so labelled divided into three for ease of reference.</p>	
K.529-K.530	<p>'IUTAM Bureau Meeting Stuttgart, West Germany, 11-12 April 1987'</p> <p>Contents of folder so labelled divided into two for ease of reference: correspondence and papers.</p>	1986-1987
K.531-K.533	<p>'IUTAM / ICA [International Commission on Acoustics] matters (1987 meetings)'</p> <p>Contents of folder so inscribed divided into three for ease of reference: correspondence and papers.</p> <p>Includes agenda and papers for 1987 Stuttgart meeting of IUTAM Bureau (K.532) and photographs (K.533).</p>	1987
K.534-K.537	<p>'IUTAM Executive Committee 18/19 September 1987 Paris'</p> <p>Contents of folder so labelled divided into four for ease of reference: correspondence and papers.</p>	1987

**Societies and organisations, K.1-K.713**

K.538-K.541	'IUTAM Election of Bureau 1988-92'	1987-1988
	Contents of folder so inscribed divided into four for ease of reference: correspondence and papers.	
K.542-K.568	<b>Meetings</b>	<b>1966-1994</b>
	See also L.28-L.37.	
K.542	IUTAM Symposium on Rotating Fluid Systems, La Jolla, California, 28 March - 2 April 1966	1966
	Abstracts booklet only.	
K.543	IUTAM Symposium on Magnetodynamics of Fluids	1967
	1 letter only <i>re</i> proposed symposium on this topic.	
K.544	Joint IUTAM / ICA [International Commission on Acoustics] Symposium on Mechanics of Noise Generation by Fluid Flows, Göttingen, West Germany, 1979	1977-1978
	Correspondence and papers <i>re</i> proposed symposium.	
K.545-K.545A	IUTAM Symposium on 'Collapse: the buckling of structures in theory and practice', University College London, 31 August - 3 September 1982	1980-1982
	Correspondence and papers <i>re</i> arrangements.	
	2 folders.	
K.546-K.548	IUTAM Symposium on Fluid Mechanics in the Spirit of G.I. Taylor, Cambridge, 24-28 March 1986	1985-1986
	Correspondence <i>re</i> arrangements, information, introductory remarks by Lighthill as President of IUTAM and Lighthill's scientific paper on waves and hydrodynamic loading, etc.	
	3 folders.	

**Societies and organisations, K.1-K.713**

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|-------------|---|-----------|
| K.549-K.556 | <p>IUTAM Symposium on Boundary Layer Separation, University College London, 26-30 August 1986</p> <p>Correspondence and papers <i>re</i> arrangements for and arising from the symposium and the IUTAM Bureau and General Assembly which also met at UCL during the period of the symposium.</p> <p>8 folders.</p> <p>Lighthill was a member of the symposium's scientific committee.</p>   | 1984-1986 |
| K.556A      | <p>IUTAM XVIIth International Congress of Theoretical and Applied Mechanics, Grenoble, France, August, 1988</p> <p>Manuscript and typescript drafts for introductory remarks in French by Lighthill as President of IUTAM, typescript draft headed 'Pour La Conference de Presse'; typescript draft of lecture by Lighthill 'Le mécanique: trois siècles après Newton' for 'Seminaire Exceptionnel Dedie A Paul Germain'.</p> <p>Germain was President of the Congress and Lighthill's successor as President of the Union.</p> | [1988]    |
| K.557       | <p>IUTAM XVIIIth International Congress of Theoretical and Applied Mechanics, Haifa, Israel, 22-28 August 1992</p> <p>Correspondence and papers <i>re</i> arrangements including abstract and extended summary of Lighthill's paper on nonlinear edge-waves.</p>  | 1991-1992 |
| K.558       | <p>IUTAM Symposium on Fluid Dynamics of High Angles of Attack, Tokyo, Japan, 13-17 September 1992</p> <p>Correspondence <i>re</i> arrangements.</p> <p>Lighthill was a member of the Scientific Committee but was unable to attend the meeting in person.</p>   | 1990-1991 |
| K.559-K.567 | <p>IUTAM General Assembly, Amsterdam, The Netherlands, 27-28 August 1994</p> <p>Correspondence and papers.</p>  | 1993-1994 |

**Societies and organisations, K.1-K.713**

9 folders.

Includes (K.567) Lighthill's report to the Royal Society on the IUTAM General Assembly. Lighthill was the leader of the UK delegation.

K.568	Shorter correspondence and papers <i>re</i> meetings	1988, n.d.
<b>K.569-K.583</b>	<b>Miscellaneous</b>	<b>1975-1988</b>
K.569-K.571	<p>'IUTAM matters and Indian applied mathematicians'</p> <p>Contents of folder so inscribed divided into three for ease of reference: correspondence and papers with IUTAM officers and Indian scientists <i>re</i> possibility of IUTAM meetings in India and Lighthill's proposal for a symposium on monsoon dynamics in particular.</p> <p>Includes Lighthill's report, December 1975, on his negotiations in India on behalf of the IUTAM Bureau.</p>	1975-1976
K.572-K.582	<p>'Correspondence with Prof. M.P. Singh'</p> <p>Contents of folder so inscribed divided into eleven for ease of reference: correspondence and papers with Singh and other Indian scientists.</p> <p>The principal topic is the joint IUTAM / IUGG symposium on monsoon dynamics, Indian Institute of Technology, Delhi, 5-9 December 1977. Lighthill and Singh were the organisers of this meeting and Lighthill gave the keynote address at its opening and undertook a number of other engagements during his visit to India.</p>	1976-1979
K.583	<p>'IUTAM - A Short History'</p> <p>Contents of folder so inscribed: correspondence and papers <i>re</i> preparation of 'IUTAM: A Short History 1922-1988'.</p>	1986-1988



**Societies and organisations, K.1-K.713**

<b>K.584-K.590</b>	<b>JOINT MATHEMATICAL COUNCIL OF THE UNITED KINGDOM</b>	<b>1972-1980</b>
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Correspondence and papers.

7 folders.

Lighthill was a co-opted member of the Council.

<b>K.591-K.602</b>	<b>MATHEMATICAL ASSOCIATION</b>	<b>1975-1990</b>
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Correspondence and papers. Principally Council papers.

12 folders,

Lighthill was elected President of the Association in 1970 and subsequently served on Council. No papers appear extant from his period as President.

<b>K.603-K.609</b>	<b>POST OFFICE BOARD</b>	<b>1971-1976</b>
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Correspondence and papers.

7 folders.

Lighthill accepted appointment as part-time member of the Post Office Board in 1971. He resigned from the end of 1974 having 'been increasingly forced to the view that the responsibilities of a Board member are, in the longer term, not compatible with my professorial duties'.

<b>K.610-K.667</b>	<b>ROYAL SOCIETY</b>	<b>1967-1998</b>
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K.610-K.621	General correspondence and papers
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K.622-K.667	Committees
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**Societies and organisations, K.1-K.713**

<b>K.610-K.621</b>	<b>General correspondence and papers</b>	<b>1984-1991</b>
K.610-K.611	1984-1985 2 folders.	
K.612-K.613	1986 2 folders.	
K.614-K.615	1987 2 folders.	
K.616-K.618	1988 3 folders.	
K.619	1989	
K.620	1990	
K.621	1991	
<b>K.622-K.667</b>	<b>Committees</b>	<b>1967-1998</b>
K.622-K.632	British National Committee for ICSU Committee papers. 11 folders.	1979-1985
K.633-K.647	British National Committee for Theoretical and Applied Mechanics	1971-1989

**Societies and organisations, K.1-K.713**

Committee papers.

15 folders.

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|-------------|--|--------------------|
| K.648-K.659 | Industrial Activities Committee  | 1971-1972          |
|             | Contents of folder inscribed 'RS Work on Green Paper'  |                    |
|             | Committee papers, comments by Committee members on the Green paper (consultative document), drafts of Lighthill's paper on the Green paper, the Royal Society response to it, etc. |                    |
|             | Lighthill was Committee Chairman. The Green paper was Consultative Document Cmnd 4814 'A Framework for Government Research and Development' (the 'Rothschild Report').             |                    |
| K.660-K.661 | International Decade for Natural Disaster Reduction Science, Technology and Engineering Working Party  | 1997-1998          |
|             | Lighthill was a member of the working party.   |                    |
|             | 2 folders.   |                    |
| K.662       | Joint Mathematical Education Committee of the Royal Society and the Institute of Mathematics and its Applications  | 1979-1980,<br>1988 |
|             | Committee papers.  |                    |
| K.663       | Joint Committee on Metrication of the Royal Society and the Council of Engineering Institutions  | 1967-1969          |
|             | Printed papers only.   |                    |
|             | 1 bundle (6 items).  |                    |
|             | Lighthill was chairman of the Committee.   |                    |
| K.664-K.667 | Newton Letters Committee   | 1971-1976          |
|             | Correspondence and committee papers.   |                    |
|             | 4 folders.   |                    |

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**Societies and organisations, K.1-K.713**

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Lighthill succeeded E.N. Da C. Andrade as Chairman of the Committee.

**K.668-K.685**

**SCIENCE RESEARCH COUNCIL / SCIENCE AND  
ENGINEERING RESEARCH COUNCIL**

**1971-1988**

Lighthill reviewed the field of artificial intelligence for the Science Research Council.

K.668-K.682

'Industrial Robotics 1972 S.R.C. Review of Artificial Intelligence 1974 CIRT 2nd Congress on Industrial Robot. Techn. Birmingham'

1971-1988

Contents of box folder so labelled.

K.668-K.675

'Robotics matters'

1971-1974

Contents of folder so inscribed divided into eight for ease of reference: correspondence and papers *re* Lighthill's review of artificial intelligence.

A letter from the SRC Chairman, B.H. Flowers, 20 September 1971, asks Lighthill to consider whether he 'would be prepared to make a considered appreciation of the subject of artificial intelligence, its achievements, its practitioners, its promise and its needs ...' Such a review 'would be an invaluable contribution to the formation of policy for research in this very complex field (K.668)'.

K.676-K.678

'Artificial Intelligence Weekend Meeting [Swansea] 22-24 September 1972'

1972

Contents of SRC folder so inscribed divided into three for ease of reference: papers for the meeting.

Includes photocopied typescript draft of the Lighthill report, 'Second Draft Script' titled 'The general-purpose robot is a mirage' and 'Some Comments on the Lighthill Report on Artificial Intelligence' by R.M. Needham.

K.679-K.681

'27-29 March 1974 Second Conference on Robot Technology, Birmingham'

1973-1974



**Societies and organisations, K.1-K.713**

Contents of folder so inscribed divided into three for ease of reference: correspondence *re* arrangements, preprints and photocopied draft of Lighthill's SRC Report.

The conference was sponsored by the Department of Mechanical Engineering, University of Birmingham, the Department of Production Engineering and Production Management, University of Nottingham and International Fluidics Services Ltd. Lighthill gave the opening address, a copy of which is at K.679.

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|-------------|--|-----------|
| K.682       | Copy of 'Artificial Intelligence: a paper symposium', Science Research Council, April 1973 (see K.684), with typescript note attached, 10 October 1986; brief correspondence, 1988   | 1973-1988 |
| K.683-K.685 | Contents of untitled folder: correspondence and papers <i>re</i> artificial intelligence   | 1972-1983 |
| K.683       | 'Artificial intelligence: A General Survey'<br><br>Typescript draft 'as revised by Professor Lighthill July 1972'.   |           |
| K.684       | 'Artificial Intelligence: a paper symposium', Science Research Council, April 1973<br><br>This SRC publication included as part 1 Lighthill's general survey; as part II 'Some Comments on the Lighthill Report and on Artificial Intelligence by Professor N.S. Sutherland'; and as part III 'Comments on the Lighthill Report and the Sutherland Reply'.<br><br>Part III comments were by R.M. Needham, H.C. Longuet-Higgins; and D. Michie. |           |
| K.685       | Copy of report on artificial intelligence prepared by P. Swinnerton-Dyer and R.M. Needham for the SERC sent to Lighthill by SERC Chairman J.F.C. Kingman with Lighthill's comments in a letter to Kingman.   | 1982      |

**Societies and organisations, K.1-K.713**

<b>K.686-K.699</b>	<b>UNITED KINGDOM ATOMIC ENERGY AUTHORITY</b>	<b>1966-1967</b>
	<p>Contents of folder labelled 'Culham Laboratory Working Party' divided into fourteen for ease of reference: correspondence, committee papers, Lighthill's drafts of the report and minority report, etc.</p> <p>Lighthill was a member of the Culham Laboratory Review Panel which was asked by the Atomic Energy Authority to review the programme on plasma physics and fusion research centred on Culham Laboratory and to make recommendations on its future scope and scale. The Panel was chaired by F.A. Vick. Lighthill and another panel member, F.E. Jones, prepared a minority report.</p>	
<b>K.700-K.705</b>	<b>UNITED KINGDOM COORDINATION COMMITTEE FOR INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION</b>	<b>1994-1995</b>
	<p>Papers for meetings of UK Coordination Committee and Royal Society IDNDR Committee (see K.660-K.661) found together in three UK Coordination Committee folders.</p> <p>6 folders.</p> <p>Lighthill was a member of the Committee.</p>	
<b>K.706-K.713</b>	<b>UNIVERSITÉ SCIENTIFIQUE, TECHNOLOGIQUE ET MEDICALE DE GRENOBLE</b>	<b>1987-1988</b>
	<p>Lighthill appears to have been a member of an evaluation team (with particular reference to university governance) under the French Comité National d'Évaluation</p>	
<b>K.706-K.712</b>	<p>'Dossier Université Grenoble I'</p> <p>Contents of folder so inscribed divided into seven for ease of reference: background papers.</p> <p>At K.712 is a list of consultants for Grenoble I including Lighthill.</p>	

**Societies and organisations, K.1-K.713**

K.713 'Dossier d'Informations Générales sur le Comité National  
d'Évaluation'

Contents of folder so inscribed: background papers.

SECTION L	VISITS AND CONFERENCES, L.1-L.109	1963-1998
L.1-L.5	<p>'Royal Aeronautical Society Symposium on Cheap Short-Range Air Transport', London, 4 May 1965</p> <p>Contents of folder inscribed 'Cheap Short-Range Air Transport 1965' and 'R.Ae. Symposium 1. Cheap Air Travel 2. Future Devp. of the Air Transport System'.</p> <p>Lighthill as Chairman of the 4 May 1965 Symposium made the opening remarks and summed up the meeting.</p>	1963-1965
L.1	<p>Correspondence <i>re</i> proposed symposium on future developments in the air transport system</p> <p>This symposium appears to have taken place in November 1964. Lighthill's advice was sought but whether he participated personally is not clear.</p>	1963-1964
L.2-L.4	<p>Correspondence and papers <i>re</i> symposium on cheap short-range air transport for which Lighthill acted as coordinator and chairman.</p> <p>3 folders.</p>	1964-1965
L.5	<p>Aeronautical Research Council Report of the Working Party on Short Range Minimum Cost Air Transport, January 1964</p>	1964
L.6-L.16	<p>Visit to the USSR, 11-28 June 1965</p> <p>Lighthill visited the USSR to 'catch up with the work of the Moscow applied mathematicians, and also visit the 'scientific town' of Novosibirsk'.</p> <p>See also J.127.</p>	1964-1965
L.6-L.7	<p>'MJL Visit to U.S.S.R. June 1965'</p> <p>Contents of folder so inscribed divided into two for ease of reference: correspondence <i>re</i> arrangements etc.</p>	
L.8-L.10	<p>'Novosibirsk Lecture (June 1966 [? in error for 1965])'</p> <p>Contents of folder so inscribed divided into three for ease</p>	



**Visits and conferences, L.1-L.109**

of reference: 77pp photocopied manuscript by Lighthill (in Russian), correspondence arising, offprints.

- |           |   |                   |
|-----------|---|-------------------|
| L.11      | <p>'Misc Russian Lectures'</p> <p>Contents of folder so inscribed: manuscript notes and drafts by Lighthill (in Russian).</p>   |                   |
| L.12-L.16 | <p>'Misc Third Prog. Talk / Russian'</p> <p>Contents of folder so inscribed divided into five for ease of reference: background papers <i>re</i> Russian visit including Novosibirsk, Lighthill's manuscript notes <i>re</i> visit and typescript draft for radio talk inspired by Russian visit 'A Boarding-school for the Mathematically Gifted'.</p> |                   |
| L.17-L.18 | <p>Visit to Japan, September 1966</p> <p>Letter of thanks from Lighthill, October 1966, manuscript notes of Lighthill <i>re</i> learning Japanese, offprints, etc.</p> <p>2 folders.</p>  | 1966              |
| L.19      | <p>Cambridge University Engineers Association Conference on Postgraduate Courses and Research in Engineering, 4 October 1969</p> <p>Report on conference including paper by Lighthill.</p>  | 1969              |
| L.20      | <p>Royal Entomological Society of London Symposium on Insect Flight, Imperial College London, 20-21 September 1973</p> <p>Programme; paper by W. Nachtigall reprinted from Insect Flight Symposia of the Royal Entomological Society of London, Number Seven, 1976.</p> <p>Contributors to discussion of Nachtigall's paper included Lighthill.</p>     | 1973-1976         |
| L.21-L.22 | <p>Conference on Scaling Problems in Biology, Duke University, Durham, North Carolina, USA, 24-27 September 1973</p>  | 1972-1976<br>/... |

**Visits and conferences, L.1-L.109**

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Contents of folder inscribed 'Scaling Conference at Duke Univ.' divided into two for ease of reference: correspondence *re* arrangements and arising, abstracts, typescript draft paper by Lighthill on 'Scaling Problems in Aquatic Locomotion', offprints.

L.23-L.27

Symposium on Swimming and Flying in Nature, California Institute of Technology, Pasadena, California, USA, 8-12 July 1974

1973-1975

Contents of folder inscribed 'Symposium 1974 Pasadena Calif' divided into five for ease of reference: correspondence *re* arrangements and arising, programme, general information, abstract of Lighthill's paper etc.

Lighthill was a member of the Technical Program Committee, gave the opening lecture and acted as a session chairman.

See also B.40-B.46.

L.28-L.37

IUPAB/IUTAM Conference on Biodynamics of Animal Locomotion, Cambridge, 1-5 September 1975

Contents of folder inscribed 'IUPAB/IUTAM Conference on Animal Locomotion divided into ten for ease of reference: correspondence *re* arrangements, programme, list of participants, Lighthill's notes on conference papers, report on the conference, etc.

Lighthill gave a paper titled 'Introduction to the scaling of aerial locomotion'.

L.38-L.44

Institute of Mathematics and its Applications Conference on Fisheries Mathematics, Aberdeen, 24-26 November 1975

1974-1975

Contents of folder inscribed 'Symposium on Fisheries Mathematics' divided into seven for ease of reference: correspondence *re* arrangements, programme, abstracts, Lighthill's manuscript notes, typescript draft of Lighthill's paper etc.

Lighthill chaired a session on population dynamics and gave a paper on 'Mathematical Theories of Fish Swimming'.

See also K.97.

### Visits and conferences, L.1-L.109

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|-----------|---|-----------|
| L.45      | <p>Visit to California Institute of Technology, Pasadena, California, USA, April 1977</p> <p>Correspondence <i>re</i> arrangements, etc.</p> <p>Lighthill lectured on flagellar hydrodynamics and scale effects in animal flights.</p>  | 1976-1977 |
| L.46      | <p>Symposium on 'Vertebrate Locomotion', London, March 1980</p> <p>1 letter only thanking Lighthill for his help in organising the symposium which was held 'at the Zoo'.</p>   | 1980      |
| L.47      | <p>Dirac Memorial Meeting, Cambridge, 19 April 1985</p> <p>Correspondence <i>re</i> arrangements and <i>re</i> publication of Lighthill's paper in book of tributes to Dirac, programme, typescript draft of Lighthill's paper etc.</p> <p>Lighthill lectured on 'Fourier Analysis and Generalised Functions'</p>   | 1984-1985 |
| L.48-L.54 | <p>Royal Society / British Academy Discussion Meeting on Predictability in Science and Society, 20-21 March 1986</p> <p>Contents of Lighthill's folder labelled with the title and dates of the meeting divided into seven for ease of reference: correspondence <i>re</i> arrangements, abstracts, background papers, etc.</p> <p>Lighthill lectured on 'The recently recognized failure of predictability in Newtonian dynamics'.</p>   | 1984-1986 |
| L.55-L.57 | <p>First National Conference on Mechanics, Athens, Greece, 25-27 June 1986</p> <p>Contents of folder labelled with the title, location and dates of the meeting divided into three for ease of reference: correspondence <i>re</i> arrangements, programme, text of Lighthill's opening address, Lighthill's report on the meeting, photograph (L.57).</p> <p>Lighthill gave the opening address as President of IUTAM and lectured on 'Waves and the Hydrodynamic Loading on Offshore Structures'.</p> |           |



**Visits and conferences, L.1-L.109**

- L.58-L.59      Visit to Lisbon, Portugal, 10-12 November 1986  
  
Correspondence *re* arrangements, background papers.  
  
2 folders.  
  
Lighthill visited Lisbon in connexion with the award of an honorary degree by the Technical University of Lisbon.  
  
See also A.55, A.89.
- L.60-L.65      Visit to China, 27 June - 10 July 1987      1986  
  
Correspondence *re* arrangements, conference programme, list of participants, typescript draft of lecture by Lighthill.  
  
6 folders.  
  
Lighthill was invited to give a keynote lecture at the International Fluid Mechanics Conference held in Beijing, 1-4 July 1987. He lectured on 'Fundamentals concerning wave loading on offshore structures'.
- L.66      Scientific Annual Meeting of GAMM [Gesellschaft für Angewandte Mathematik und Mechanik], Vienna, Austria, 5-8 April 1988      1987-1988  
  
Correspondence *re* arrangements, abstract of Lighthill's lecture, etc.  
  
Lighthill lectured on 'Fundamentals concerning wave loading on offshore structures'.
- L.67-L.68      Fourth Asian Congress of Fluid Mechanics, Hong Kong, 21-25 August 1989      1988-1989  
  
Correspondence *re* arrangements, abstract of Lighthill's lecture, etc.  
  
2 folders.  
  
Lighthill agreed to give an invited lecture on 'Biofluidynamics of Balistiform Locomotion or "What triggers the trigger fishes?" '. However, 'the very sudden and drastic recent changes in China, leading to the disastrous deterioration in the state of the universities there, as well as to a serious destabilization of the position of Hong Kong (coupled with a worsening of its relations



**Visits and conferences, L.1-L.109**

with Britain), have forced us to conclude that we must withdraw our formally given undertaking to attend the Congress'.

- |           |  |           |
|-----------|--|-----------|
| L.69-L.72 | <p>Institute of Mathematics and Its Applications conference on 'Chaos Applications in Engineering and Science', University College London, 15 June 1990</p> <p>Correspondence <i>re</i> arrangements, manuscript draft and transparencies for Lighthill's lecture.</p> <p>4 folders.</p> <p>Lighthill gave an introductory lecture on 'Chaos: A Historical Perspective' and then chaired a session.</p>  | 1990      |
| L.73      | <p>IUGG Symposium U4 'Non-Linear Dynamics and Predictability of Critical Geophysical Phenomena', 20 August 1991</p> <p>Contents of folder inscribed 'Gabrielov: Union Seminar U4': invitation, preliminary programme, typescript draft of paper by Lighthill 'The recently recognised failure of predictability in Newtonian dynamics' which he contributed to 1986 Royal Society/British Academy Discussion Meeting (see L.48-L.54).</p> <p>A. Gabrielov invited Lighthill to provide a general overview of non-linear science and chair the first session.</p> | 1991      |
| L.74-L.75 | <p>Second Caribbean Congress on Fluid Dynamics, University of the West Indies, St Augustine, Trinidad, 5-8 January 1992</p> <p>Correspondence <i>re</i> arrangements, programme, list of participants, Lighthill's manuscript notes, etc.</p> <p>2 folders.</p> <p>Lighthill accepted an invitation to give the Keynote Lecture titled 'What can Fluid Dynamics Contribute to the International Decade for Natural Disaster Reduction?'</p>  | 1990-1992 |
| L.76-L.77 | <p>34th British Theoretical Mechanics Colloquium, University of Keele, 30 March - 2 April 1992</p> <p>Correspondence <i>re</i> arrangements, conference information</p>  | 1992      |

**Visits and conferences, L.1-L.109**

including abstracts and list of participants.

Lighthill gave a paper on 'Nonlinear Edge-Waves'.

- |           |   |           |
|-----------|---|-----------|
| L.78-L.80 | <p>12th Dundee Conference on the Theory of Ordinary and Partial Differential Equations, University of Dundee, 22-26 June 1992</p> <p>Correspondence <i>re</i> arrangements, conference information including abstracts, programme and list of participants, transparencies for Lighthill's paper.</p> <p>3 folders.</p> <p>Lighthill lectured on 'Fourier Asymptotics' and gave an after-dinner speech.</p>   | 1991-1992 |
| L.81-L.84 | <p>Visit to Calcutta, India, 15-22 November 1992</p> <p>Correspondence <i>re</i> arrangements, Lighthill's manuscript notes, background papers <i>re</i> natural disasters, etc.</p> <p>4 folders.</p> <p>Lighthill was invited to visit Calcutta by D.K. Sinha, Co-ordinator, Centre for Atmospheric Sciences, Atmospheric Sciences Programme, University of Calcutta. Lighthill's visit to Calcutta included Seminar on 'Contours of Curriculum Development in the Context of IDNDR (see also K.355).</p> | 1992-1993 |
| L.85      | <p>Symposium on Aerodynamics and Aeroacoustics on the occasion of the 80th birthday of W.R. Sears, ?March 1993</p> <p>Brief correspondence <i>re</i> arrangements.</p> <p>The exact date of the symposium is not specified in the correspondence but Sears was born on 1 March 1913. Lighthill gave a presentation at the symposium.</p>  | 1993      |
| L.86      | <p>British Council / Accademia dei Lincei meeting on Large Explosive Eruptions, Rome, Italy, 24-25 May 1993</p> <p>Correspondence <i>re</i> arrangements, programme, etc.</p> <p>Lighthill chaired a round table discussion.</p>  | 1992-1993 |

**Visits and conferences, L.1-L.109**

- |            |   |           |
|------------|---|-----------|
| L.87       | Noise-93 International Noise and Vibration Control Conference, St Petersburg, Russia, 31 May - June 3 1993  | 1993      |
|            | Copies of Lighthill's Arrival and Departure, Participant Reply and Extra Cultural Events forms only.  |           |
| <br>       |   |           |
| L.88-L.105 | World Meteorological Organization (WMO) Third International Workshop on Tropical Cyclones, Huatulco, Mexico, 22 November - 1 December 1993  | 1993-1995 |
|            | Contents of Lighthill's folder inscribed 'Caribbean Workshop on Tropical Cyclones' divided into eighteen for ease of reference: correspondence <i>re</i> arrangements and arising, Lighthill's manuscript notes, background papers, etc.  |           |
|            | The workshop was one of the major activities under the ICSU/WMO demonstration project 'Tropical Cyclone Disasters' of the IDNDR in close co-ordination with ICSU (see K.182-K.463). Additionally Lighthill was asked to organise the special Symposium 'Global Climate Change and Tropical Cyclones' to which the whole of Monday 22 November and part of Friday 26 November was devoted. Lighthill chaired and prepared the report of the the symposium which was submitted to the American Meteorological Society for publication. Much of the material relates to the preparation and publication of the report. |           |
| <br>       |   |           |
| L.106      | Society for Experimental Biology Symposium on Biological Fluid Dynamics', Leeds, 4-9 July 1994  | 1994      |
|            | Brief correspondence <i>re</i> publication of proceedings.  |           |
|            | Lighthill was an invited speaker.   |           |
| <br>       |   |           |
| L.107      | Visit to City College New York, USA, February 1997  | 1997      |
|            | Report in CCNY Newsletter, May 1997.  |           |
|            | Lighthill was a guest lecturer.   |           |
| <br>       |   |           |
| L.108      | Fifth International Congress on Sound and Vibration, Adelaide, South Australia, 15-18 December 1997   | 1997      |
|            | Brief correspondence <i>re</i> arrangements for Congress and IIAV (International Institute of Acoustics and Vibration)  |           |



**Visits and conferences, L.1-L.109**

business.

The Congress was sponsored by the IIAV and Lighthill as President of the Institute gave an Address on 'A Century of Shock Waves'.

L.109

Fourth International Workshop on Tropical Cyclones,  
Hainan, China, 21-30 April 1998

1997-1998

Correspondence *re* arrangements, Lighthill's report to the IUTAM General Assembly, and Lighthill's accounts as leader of the ICSU delegation.



<b>SECTION M</b>	<b>CORRESPONDENCE, M.1-M.496</b>	<b>1968-1998</b>
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M.1-M.174	GENERAL CORRESPONDENCE: ALPHABETICAL SEQUENCE	
M.175-M.278	GENERAL CORRESPONDENCE: CHRONOLOGICAL SEQUENCE	
M.279-M.319	COPIES OF OUTGOING CORRESPONDENCE: ALPHABETICAL SEQUENCE	
M.320-M.326A	MISCELLANEOUS CORRESPONDENCE WITH INDIVIDUALS	
M.327-M.496	REFERENCES	

<b>M.1-M.174</b>	<b>GENERAL CORRESPONDENCE: ALPHABETICAL SEQUENCE</b>	<b>1969-1992</b>
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The sequence is not complete. Correspondents P-Z were not found.

M.1-M.8	<p>'A1'</p> <p>Contents of folder so inscribed.</p>	1979-1991
M.1	Academia Europaea - <i>Acta Mechanica Sinica</i>	1989-1990
M.2	Adams - Agarwal	1985-1990
M.3	Alexander - Alkemade	1987, 1990
M.4	Allen	1984
M.5	Altman - American Philosophical Society	1986-1989

**Correspondence, M.1-M.496**

M.6	<i>American Scientist</i> - Amsterdam Royal Palace Foundation	1983-1991
M.7	Anand - Ancient India and Iran Trust	1979-1984
M.8	Andlauer	1981-1982
M.9-M.19	'A2' Contents of folder so inscribed.	1969-1991
M.9	Andrews - Angelo	1980-1983
M.10	Annan	1977-1984
M.11	Annual Reviews Inc. - <i>Applied Mechanics Reviews</i>	1982-1989
M.12	Aranha - Arora	1983-1989
M.13	Asano	1989
M.14	Ash	1989, 1991
M.15	Ashkenazi - Ashmore	1984-1991
M.16-M.17	Athenaeum 2 folders.	1981-1989
M.18	Atiyah - Avula	1980-1990

**Correspondence, M.1-M.496**

M.19	Axford - Azad	1969, 1982
M.20-M.31	'B1' Contents of folder so inscribed.	1980-1992
M.20	Bajpai - Ballmann	1982-1991
M.21	Banerjee	1982-1983
M.22	Banks - Batchelor	1982-1991
M.23	Baxendale - Bellot	1980-1991
M.24	Bence - Bengtsson	1981-1989
M.25	Benjamin - Bentham	1982-1991
M.26	Bera - Berridge	1991-1992
M.26	Bhaduri - Bhatt	1981 – 1990
M.28	Bickmore - Birkbeck	1980-1989
M.29-M.30	Blake 2 folders.	1983-1991
M.31	Bodmer - Bose	1980-1989

**Correspondence, M.1-M.496**

M.32-M.40	'B2' Contents of folder so inscribed.	1971-1991
M.32	Borovikov - Bowes and Bowes	1971-1989
M.33	BP - Braben	1983-1984
M.34	Bradfield - British Association	1978-1991
M.35	British Computer Society	1981
M.36-M.37	British Council 2 folders.	1979-1986
M.38	British Technion Society - Brown	1980-1990
M.39	Bruins	1990
M.40	Brunel University - Business Education Council	1979-1990
M.41-M.50	'C1' Contents of folder so inscribed.	1980-1992
M.41	Calder - Callaghan	1980-1984
M.42	Cambridge Philosophical Society	1981-1992
M.43-M.45	Cambridge University Press 3 folders.	1983-1989



**Correspondence, M.1-M.496**

M.46	Campbell - Cannon	1981-1989
M.47	Caro	1981-1991
M.48	Cartwright - Challis	1980-1991
M.49	Chamber Music Club, UCL	1980-1987
M.50	Chapman - Chawla	1982-1991
M.51-M.63	'C2' Contents of folder so inscribed	1978-1991
M.51	Chakraborty - Chemical	1980-1991
M.52-M.56	Cheng 5 folders.	1980-1986
M.57	Chernyi - Chester	1980-1990
M.58	Cheung - Chwang	1978-1990
M.59	CIHE [Council for Industry and Higher Education] - Clarkson	1980-1991
M.60	Cohen - Collins	1980-1990
M.61	Conference of Professors of Applied Mathematics - Corrsin	1979-1989

**Correspondence, M.1-M.496**

M.62	Crabtree Dinner - Crow	1981-1990
M.63	Crowe - Czech	1981-1990
M.64-M.70	'D' Contents of folder so inscribed.	1978-1992
M.64	D'Ambrosio - Darwin Day Celebrations	1978-1990
M.65	Decaux - De Morgan Society	1984-1991
M.66	Denness	1985
M.67	Dennis - <i>Dictionary of National Biography</i>	1983-1992
M.68	Dionisotti - Donovan	1980-1988
M.69	Dooge	1983
M.70	Douglas Aircraft Company - Dyson	1981-1991
M.71-M.73	'E' Contents of folder so inscribed.	1979-1989
M.71	Earles - Elnaschie	1979-1989
M.72	<i>Encyclopaedia of Mathematics</i> - Enever	1979-1984

**Correspondence, M.1-M.496**

M.73	Engelbrecht - <i>Europhysics Journal</i>	1979-1991
M.74-M.85	'F' Contents of folder so inscribed.	1978-1992
M.74	Fabrikant	1986
M.75	Faculty Board of Mathematics, Cambridge - Fatmi	1979-1988
M.76	Faulkner - Favre	1980-1990
M.77	Fellowship of Engineering	1981-1991
M.78	Fernandes - Fifield	1980-1990
M.79	Fiszdon	1981-1991
M.80	Fleck	1980
M.81	Flight - Flowers	1978-1991
M.82	Fluid Dynamics Research	1991-1992
M.83	Follett - Freeman	1979-1990
M.84	Freud Museum	1986-1987
M.85	Fujii	N.d.

**Correspondence, M.1-M.496**

M.86-M.96	'G'  Contents of folder so inscribed.	1970-1992
M.86	Gajjar - Garrett	1987-1990
M.87	Gas Research Institute	1984
M.88	Gee - Gibbs	1975-1988
M.89	Giblin - Gill	1981-1992
M.90	Giles	1981
M.91	Godfrey - Gowing	1970-1990
M.92	Graduate Aeronautical Laboratories - Greene  Includes misfiled letter from I.N. Sneddon.	1979-1987
M.93-M.94	Greenwich Forum  The Forum aimed 'to promote public awareness of Britain's dependence on the sea'.  2 folders.	1986-1988
M.95	Griffith	1980, 1982
M.96	Grossberg - Gupta	1981-1992
M.97-M.103	'H'  Contents of folder so inscribed.	1975-1990



**Correspondence, M.1-M.496**

M.97	Hall - Harrison	1979-1990
M.98	Hart - Hayman	1979-1989
M.99	<i>Heat and Fluid Flow</i> - Hepple	1979-1990
M.100	Herakovich - Heughan	1975-1984
M.101	Hill - Homentcovschi	1978-1988
M.102	Hopkins - Howson	1978-1986
M.103	Hui - Hutter	1979-1990
M.104-M.116	'I' Contents of folder so inscribed.	1970-1992
H.104	Ibiejugba	1990
M.105	ICA - Imperial Chemical Industries Ltd	1970-1991
M.106	Imperial College London	1974-1990
M.107	<i>Independent</i> - Indian Science Congress Association	1983-1992
M.108	Ingram - Institute for Advancement of Science and Technology Training, Dacca	1980-1992

**Correspondence, M.1-M.496**

M.109	Institute of Acoustics - Institute of Oceanographical Sciences	1980-1992
M.110	Institution of Chemical Engineers	1981-1988
M.111	Institution of Electrical Engineers	1986-1991
M.112	London Intercollegiate Luncheon Club - International Academy of Astronautics	1981-1986
M.113	International Astronautical Federation - International Council of Scientific Unions	1980-1985
M.114	International Hall - IUGG	1979-1992
M.115	International Union of Pure and Applied Physics	1985-1991
M.116	Inui - ISTAM [Indian Society of Theoretical and Applied Mechanics]	1980-1990
M.117-M.122	'J'  Contents of folder so inscribed.	1969-1991
M.117	Jackson - Jiayi	1969-1986
M.118	Johns - Johnstone	1983-1991
M.119	Jones, D.S. - Jones, R.T.	1985-1991
M.120	Jones, R.V.	1979-1980

**Correspondence, M.1-M.496**

M.121	<i>Journal of Computational Physics - Journal of Experimental Biology</i>	1979-1991
M.122	<i>Journal of Fluids Engineering - Jowell</i>	1980-1991
M.123-M.131	'K' Contents of folder so inscribed.	1970-1991
M.123	Kahn - Katyal	1981-1990
M.124	Keir - Kermack	1970-1986
M.125	King-Hele - Kiya	1979-1990
M.126	Klauber	1981
M.127	Knopoff - Kozlov	1979-1990
M.128-M.130	Krikor Baytarian & Associates (UK) Ltd 3 folders. re King Saud University.	1983-1985
M.131	Krishnamurti - Kuwahara	1980-1991
M.132-H.146	'L' Contents of folder so inscribed.	1979-1992
M.132	Lacey - Lakshminarayanan	1980-1990

**Correspondence, M.1-M.496**

M.133-M.136	Lam  4 folders.  <i>re</i> Lighthill's 1972 survey of artificial intelligence.	1988-1990
M.137	Lange & Springer - Laws	1979-1992
M.138	Lee	1986-1992
M.139	Legendre	1990
M.140	Lehmann - Lewis	1980-1991
M.141	Leverhulme Trust	1989-1992
M.142	Lilley - Livesey	1980-1991
M.143	Logan - Longuet-Higgins	1980-1989
M.144-M.145	Loughborough University  2 folders.	1990
M.146	Lu - Lukes  Includes misfiled letter from H.M. Sinclair.	1982-1988
M.147-M.153	'M1'  Contents of folder so inscribed.	1979-1992
M.147	McEwen - McNicol	1979-1990



**Correspondence, M.1-M.496**

M.148	Mahji - University of Manitoba	1982-1990
M.149	Marchuk - Mast	1979-1992
M.150	Mathematical Association - Matthews	1980-1989
M.151-M.152	Maunder 2 folders.	1985
M.153	Maxwell	1979, 1983
M.154-M.160	'M2' Contents of folder so inscribed.	1979-1991
M.154	Mechanical Engineering Publications Ltd - Midgeley	1979-1987
M.155	Meteorological Office	1983-1987
M.156-M.157	Mikhailov 2 folders.	1989-1991
M.158	Miles - Ministry of Defence	1979-1990
M.159	Moffatt	1984
M.160	Möhring - Mysak	1981-1991

**Correspondence, M.1-M.496**

M.161-M.168	'N'  Contents of folder so inscribed.	1979-1992
M.161	Nachtigall - National Academy of Engineering	1980-1989
M.162	National Academy of Sciences	1979-1989
M.163	National Research Council - University College London Natural Science Club	1979-1988
M.164-M.165	<i>Nature</i>  2 folders.	1983-1991
M.166	Neale - Newman	1980-1992
M.167	Nieto - Nigam	1987-1990
M.168	North-Holland Publishing Company - <i>Numerical Methods in Fluids</i>	1981-1989, n.d.
M.169-M.174	'O'  Contents of folder so inscribed.	1969-1990
M.169	Oatley - Ollerenshaw	1969-1985
M.170	Osborne	1979, 1989
M.171	Osprey - Owen	1981, 1990

**Correspondence, M.1-M.496**

M.172	Oxford and Cambridge Music Club	1980-1988
M.173	Oxford Journals	1985, 1989
M.174	Oxford University Press	1982-1989
<b>M.175-M.278</b>	<b>GENERAL CORRESPONDENCE: CHRONOLOGICAL SEQUENCE</b>	<b>1974-1998</b>
M.175	1974	
M.176-M.178	1978 3 folders.	
M.179-M.180	1979 2 folders.	
M.181	1980	
M.182	1984	
M.183-M.184	1991 2 folders.	
M.185	1992	
M.186-M.192	1993	

**Correspondence, M.1-M.496**

M.186	March
M.187	May
M.188	July-August
M.189	September
M.190	October
M.191	November
M.192	December
M.193-M.209	1994
M.193-M.194	January 2 folders.
M.195	February
M.196	March
M.197	April-May
M.198	June



**Correspondence, M.1-M.496**

M.199-M.201	July 3 folders.
M.202	August
M.203	September
M.204-M.205	October 2 folders.
M.206	November
M.207-M.209	December 3 folders.
M.210-M.241	1995
M.210-M.211	January 2 folders.
M.212-M.216	February 5 folders.
M.217-M.221	March 5 folders.
M.222-M.226	April 5 folders.

**Correspondence, M.1-M.496**

M.227-M.229	May 3 folders.
M.230-M.233	June 4 folders.
M.234	July
M.235	August
M.236-M.237	September 2 folders.
M.238-M.239	October 2 folders.
M.240	November
M.241	December
M.242-M.252	1996
M.242	January
M.243	February
M.244	March

**Correspondence, M.1-M.496**

M.245	April
M.246	May
M.247	June
M.248	July-August
M.249	September
M.250	October
M.251	November
M.252	December
M.253-M.266	1997
M.253-M.254	January 2 folders.
M.255	February
M.256	March
M.257	April
M.258	May

**Correspondence, M.1-M.496**

M.259	June
M.260-M.261	July 2 folders
M.262	August
M.263	September
M.264	October
M.265	November
M.266	December
M.267-M.277	1998
M.267	January
M.268-M.269	February 2 folders.
M.270-M.271	March 2 folders.
M.272	April



**Correspondence, M.1-M.496**

M.273-M.274      May  
2 folders.

M.275-M.276      June

M.277              July

M.278              N.d.

**M.279-M.319      COPIES OF OUTGOING CORRESPONDENCE:      1992-1998**  
**ALPHABETICAL SEQUENCE**

Unindexed.

The sequence includes a small number of incoming letters.

M.279              Acrivos - Ashmore              1993-1997

M.280              Baltic State University - Biesheuvel              1992-1998

M.281              Blake - Bye              1992-1998

M.282              Cabannes - Caratti              1992-1997

M.283              Cole - Costen              1993-1997

M.284              Crane - Crocker              1993-1998

M.285              Croucher Foundation - Chwang              1992-1997

**Correspondence, M.1-M.496**

M.286	Davenport - Duck	1992-1998
M.287	<i>Ecodecision</i> magazine - Engelbrecht	1993-1996
M.288	Farassat - Foley	1993-1998
M.289	Gad-el-Hak - Grozdev	1992-1998
M.290	Hall - Howe	1992-1998
M.291	Hunt - Hussain	1993-1996
M.292	Hussaini - Hwang	1992-1998
M.293	Institute of Acoustics - Ivanov	1992-1998
M.294-M.302	International Council of Scientific Unions (ICSU)  9 folders.  Correspondence relates to ICSU Special Committee on the International Decade for Natural Disaster Reduction. See also K.182-K.463.	1992-1996
M.303	Jaffrin - <i>Journal of Fluid Dynamics</i>	1992-1996
M.304	Kaplan - Kwak	1992-1998
M.305	Lang - Moore	1993-1998

**Correspondence, M.1-M.496**

M.306	Nakashima - Okamura	1993-1998
M.307	Panza - Pudov	1992-1998
M.308	Quandt - <i>Quarterly Journal of Mechanics and Applied Mathematics</i>	1993
M.309	Radisson - Rapp	1992-1996
M.310	Rashbass - Rylov	1992-1998
M.311	Sachdev - Short	1992-1998
M.312	Sinha - Sutherland	1992-1997
M.313	Tandon - Turcotte	1992-1998
M.314	UCF Mathematics Department - Uyeda	1994-1996
M.315	Vainshtein - Vice-Chancellor, University of London	1993-1998
M.316	Walker - Weizmann Institute of Technology	1992-1996
M.317	Wells	1993
M.318	Wendt - Wu	1994-1997
M.319	Yamamoto - Zirngast	1993-1998

**Correspondence, M.1-M.496**

<b>M.320-M.326A</b>	<b>MISCELLANEOUS CORRESPONDENCE WITH INDIVIDUALS</b>	<b>1968-1988</b>
M.320	Campos, L.M.B.C.  Campos came from Portugal to research for a period at the Department of Applied Mathematics and Theoretical Physics, University of Cambridge.	1978
M.321-M.324	Mees, A.I.  Mees was a research student of Lighthill's who was subsequently appointed to the chair of modern applied mathematics in the University of Western Australia.  Research and career.  4 folders	1970-1984
M.325-M.326	Whiteside, D.T.  Correspondence and papers <i>re</i> support for the Newton Scholar, D.T. Whiteside (1932-2008).  2 folders.  Lighthill's principal correspondent is Sir Harold Hartley. There is a photocopy of a letter from Whiteside to Hartley at M.325.	1968-1971
M.326A	'Misc Correspondence (Maths)'  Contents of folder so inscribed.	1979-1988
<b>M.327-M.496</b>	<b>REFERENCES</b>  The contents of a series of folders inscribed with the letters of the alphabet.  The sequence is not complete S-Z were not found.	<b>1972-1992</b>



**Correspondence, M.1-M.496**

The contents include references for appointments, evaluations of research proposals, referee's reports on papers, reports on PhD dissertations, recommendations for medals and prizes, curricula vitae and lists of publications.

Unindexed.

M.327-M.332	'A'	1974-1991
	Contents of folder so inscribed.	
M.327	Ach. - Ada.	1976-1991
M.328	Acr.	1987
M.329	Ale.	1975-1977
M.330	And.	1990
M.331	Arc.	1974
M.332	Ash.	1985
M.333-M.351	'B'	1974-1991
	Contents of folder so inscribed.	
M.333	Bai. - Bar.	1974-1988
M.334	Ban.	1989
M.335	Bax	1980-1986

**Correspondence, M.1-M.496**

M.336	Bel. - Bev.	1974-1989
M.337-M.342	Bha. 6 folders.	1979-1991
M.343	Bil. - Blac.	1980-1988
M.344-M.346	Blak. (1) 3 folders.	1979-1988
M.347-M.351	Blak (2) 5 folders.	1977-1991
M.352-M.359	'B2' Contents of folder so inscribed.	1974-1991
M.352	Bly.	1978
M.353	Bon.	1987-1988
M.354	Bos.	1990
M.355	Bow. - Bre.	1974-1991
M.356	'Bristol University Refs'	1985-1986
M.357	Bro. - Buck.	1975-1991

**Correspondence, M.1-M.496**

M.358	Burg. - Burn	1979-1988
M.359	Burs. - By.	1986-1990
M.360-M.364	'Belgium'  Contents of folder so inscribed divided into five for ease of reference.	1990
M.365-M.380	'C'  Contents of folder so inscribed.	1974-1992
M.365	Cama. - Camp.	1986-1992
M.366	Can.	1978-1979
M.367-M.369	Car.  3 folders.	1979-1986
M.370	Cat. - Chu	1976-1992
M.371	Chur.	1984-1988
M.372	Chw.	1977-1983
M.373	Cla. (1)	1980
M.374	Cla. (2)	1981

**Correspondence, M.1-M.496**

M.375	Cla. (3)	1981
M.376	Col. - Cor.	1981-1988
M.377	Cox	1974
M.378	Crighton. D.G.	1975-1986
M.379	Cro.	1990-1991
M.380	Cru. - Cum.	1978-1987
M.381-M.388	'D' Contents of folder so inscribed.	1974-1990
M.381	Dam	1986
M.382	Dan.	1979, 1988
M.383	Daven.	1989
M.384	David	1985, 1988
M.385	Davies	1974-1988
M.386	Dev. - Dov.	1977-1988
M.387	Dow.	1978-1989



**Correspondence, M.1-M.496**

M.388	Dro. - Dy.	1978-1990
M.389-M.394	'E' Contents of folder so inscribed.	1972-1992
M.389	Eg. - Ell.	1980-1990
M.390	EII.	1981-1983
M.391	EIn. - Elt.	1972-1988
M.392	Ene - Enn	1978-1980
M.393	Evans (1)	1979-1986
M.394	Evans (2)	1992
M.395-M.398	[F] Contents of folder.	1972-1990
M.395	Fau. - Fen.	1981-1989
M.396	Fif.	1985-1990
M.397	Fit.	1973-1974
M.398	Fog. - Fur.	1972-1988

**Correspondence, M.1-M.496**

M.399-M.406	[G] Contents of folder.	1972-1991
M.399	Gad. - Ger.	1980-1988
M.400	Ghi - Gib.	1977-1990
M.401	Gil. - Gol.	1979-1985
M.402	Goo. - Gri. (1)	1984-1991
M.403	Gri. (2)	1990
M.404	Gro.	1972-1984
M.405	Gru.	1984-1991
M.406	Gup.	1980
M.407-M.430	[H] Contents of two folders.	1973-1992
M.407	Haf. - Hal.	1977-1986
M.408	Harp. (1)	1990-1992
M.409	Harp. (2)	1978-1991
M.410	Harl. - Hay. (1)	1983-1990

**Correspondence, M.1-M.496**

M.411	Hay. (2)	1983-1984
M.412	Hey.	1988
M.413	Hic.	1989-1990
M.414-M.415	Hig. 2 folders.	1979-1989
M.416	Hin. - Hio.	1975, 1978
M.417	Hog.	1979-1992
M.418	Holm.	1983-1989
M.419	Holw.	1982, 1984
M.420	Holy.	1980-1987
M.421-M.422	How. 2 folders.	1973-1992
M.423	Hud.	1983-1984
M.424-M.425	Hug. 2 folders.	1982-1987
M.426	Hun.	1974, 1988



**Correspondence, M.1-M.496**

M.427-M.429	Hup.  3 folders.	1980-1988
M.430	Hus.	1990-1991
M.431	[I]  Contents of folder.  Ing. - Institute of Mathematics and its Applications.	1978, 1982
M.432-M.437	[J]  Contents of folder.	1972-1992
M.432	Jac. - Jam.	1981-1992
M.433	Jay.	1982-1989
M.434	Joh. (1)	1989-1991
J.435	Joh. (2)	1981-1982
M.436	Jon. (1)	1972-1974
M.437	Jon. (2)	1979-1989
M.438-M.443	[K]  Contents of folder.	1973-1989
M.438	Kam.	1982-1983



**Correspondence, M.1-M.496**

M.439	Kel. (1)	1978-1989
M.440	Kel. (2) - Kem.	1985-1988
M.441	Ken. - Koe.	1973-1987
M.442	Kok.	1979
M.443	Kuc.	1974
M.444-M.456	'L' Contents of folder so inscribed.	1974-1992
M.444	Lee - Lil.	1980-1992
M.445-M.448	Lim 4 folders.	[1979]-1992
M.449	Lip.	1983
M.450	Lir.	1977-1984
M.451	Llo. - Loo.	1974-1991
M.452-M.456	Loughborough University of Technology 5 folders.	1986

**Correspondence, M.1-M.496**

M.457-M.469	'M'  Contents of folder so inscribed.	1973-1992
M.457	McD. - McF.	1983, 1988
M.458	McG.- Man. (1)	1974-1992
M.459	Man. (2)	1979-1982
M.460	Mar. - May.	1974-1982
M.461	Mee.	1987-1991
M.462	Mer. - Mil. (1)	1981-1987
M.463	Mil. (2)	1983-1989
M.464	Min.	1991
M.465	Mit.	1979
M.466	Mol.	1973-1986
M.467	Mor.	1981-1985
M.468	Mor. - Mur.	1974-1986
M.469	My.	1985

**Correspondence, M.1-M.496**

M.470-M.472	'N'  Contents of folder so inscribed.	1977-1989
M.470	Nag.	1977
M.471	Nas.	1983
M.472	Nee. - Nor.	1979-1989
M.473-M.484	'O, P, Q'  Contents of folder so inscribed.	1974-1992
M.473	Ort.	1987
M.474	Pac. - Par. (1)	1980-1991
M.475	Par. (2)	1974-1992
M.476	Pat.	1984-1988
M.477	Pea. (1)	1992
M.478	Pea. (2)	1980
M.479-M.480	Ped.  2 folders.	1980-1990
M.481	Per.	1981-1987

**Correspondence, M.1-M.496**

M.482	Pha.	1986
M.483	Phi. - Pro.	1974-1987
M.484	Qui.	1984-1986
M.485-M.496	'R' Contents of folder so inscribed.	1977-1991
M.485	Rah. - Ran.	1979-1988
M.486	Rao	1979-1987
M.487	Rap.	1988-1990
M.488	Rav.	1978-1984
M.489	Raw. - Ric.	1981-1990
M.490	Ril. - Roe.	1979-1988
M.491-M.495	Rog. 5 folders.	1977-1986
M.496	Ros. - Rox.	1985-1991



<b>SECTION N</b>	<b>NON-TEXTUAL MATERIAL, N.1-N.56</b>	<b>1950-1992</b>
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N.1-N.47	PHOTOGRAPHS
N.48-N.52	PHOTOGRAPHIC SLIDES
N.53-N.56	AUDIOTAPES

<b>N.1-N.47</b>	<b>PHOTOGRAPHS</b>	<b>1950-1998</b>
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<b>N.1-N.18</b>	<b>Lighthill</b>	<b>N.d., [1984] - 1998</b>
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Most photographs undated.

N.1	'Photographs of Director'	N.d.
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Contents of envelope so inscribed: 3 black and white photographs (2 identical).

Lighthill was Director of the Royal Aircraft Establishment, Farnborough, 1959-1964

N.2	Lighthill	N.d.
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2 black and white photographs (identical).

N.3	'Professor Sir James Lighthill University of Cambridge'	N.d.
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1 black and white photograph.

Lighthill was Lucasian Professor of Mathematics at Cambridge, 1969-1979.

N.4	Lighthill	N.d.
-----	-----------	------

7 black and white photographs of Lighthill, ? as Provost of University College London, taken on the same occasion and numbered 2, 3, 4, 5, 6, 11 and 12. Number 6 seems to have been chosen for publication as 'Fig 8.2'.

**Non-textual material, N.1-N.56**

Lighthill was Provost, 1979-1989.

N.5

Lighthill

2 black and white photographs taken on the same occasion as the preceding.

N.6

Lighthill

N.d.

3 black and white photographs, ? of Lighthill as Provost of University College London, taken on the same occasion and numbered A2, A3 and A5.

N.7

'Provost accepting cheque from GBC for 11th floor extension'.

N.d.

4 photographs with UCL Department of Electronic and Electrical Engineering compliments slip so inscribed.

N.8

Lighthill, Lady Lighthill and others at a social occasion ? while Lighthill Provost of UCL

N.d.

5 black and white photographs.

N.9

Lighthill at Université de Technologie de Compiègne ? on the occasion of his receiving an honorary degree

N.d.

9 black and white photographs.

N.10

Lighthill with colleagues on overseas visit

N.d.

3 colour photographs.

N.11

Lighthill

1992

7 colour photographs taken by G.I. Barenblatt with letter from Barenblatt, 23 April 1992.

N.12

Lighthill with colleague M. Nakashima

1995

**Non-textual material, N.1-N.56**

	1 colour photograph with letter from Nakashima, 6 July 1995	
N.13-N.14	<p>'Visit to Kyoto Institute of Technology [Japan], 28/8/96'</p> <p>Contents of envelope so inscribed divided into two for ease of reference: 19 colour photographs.</p> <p>Lighthill was accompanied by his wife who appears in all except one of the photographs.</p>	1996
N.15	<p>Lighthill at social occasion with ? colleagues</p> <p>1 colour photograph found in envelope postmarked in Russia '01 06 1998'.</p> <p>The sender is [? Vladimir D.] Pudov</p>	1998
N.16	<p>Lighthill in swimming trunks ? on Sark</p> <p>1 colour photograph.</p>	N.d.
N.17	<p>Lighthill with other recipients of honorary degrees and Chancellor, University of Leeds</p> <p>Large format photograph</p>	[1984]
N.18	<p>Lighthill with ? other recipients of honorary degree or similar award</p> <p>Framed large format photograph.</p>	N.d.
N.19-N.41	<p><b>Research</b></p> <p>Contents of large envelope inscribed 'Photos'.</p> <p>Photographs and a little associated material relating to Lighthill's research at the University of Manchester in the early 1950s.</p>	1950-1955



**Non-textual material, N.1-N.56**

N.19	<p>'Notes on photographs'</p> <p>1p manuscript note.</p>	N.d.
N.20	<p>'Prof. Lighthill [University of Manchester] Mathematics Department'</p> <p>Box of 75 black and white photographs so inscribed.</p> <p>The photographs are numbered and dated in April and May 1951 with identifying inscriptions, e.g. '(1) 23/4/51 conical-nosed probe <math>L/D = 5.14</math>'.</p>	1951
N.21	<p>Letter from D. Beastall, National Aeronautical Establishment, Bedford, 26 January 1953, enclosing 'a Schlieren photograph of the wake from a small aerofoil striking the lip of a cowl and causing a slight oscillation of the detached shock ahead of the cowl and for comparison a photograph where the wake misses the cowl'</p>	1953
N.22-N.23	<p>'Prof. Lighthill Nozzle Flow '</p> <p>Contents of envelope so inscribed divided into two for ease of reference: 10 black and white photographs with explanatory note.</p>	N.d.
N.24	<p>Letter from 'Wayland' [W.C. Griffith] at Department of Physics, University College London enclosing two sketches and a black and white photograph that he had received from Princeton</p> <p>The photograph has a pencil note on the back beginning 'CO2 diffuse shock wave ...'</p>	N.d
N.25-N.34	<p>'Enlargements for Professor Lighthill'</p> <p>Contents of University of Manchester envelope so inscribed.</p>	1950-1951
N.25-N.26	<p>List of enlargements L1-L18, and 18 corresponding black and white photographs dated on the back December 1950 - September 1951</p> <p>2 folders.</p>	1950-1951  /...



**Non-textual material, N.1-N.56**

/...	For L19, L20 see N.47. For L21, L23-L31 see N.35.	
N.27	8 black and white photographs with manuscript inscriptions and dated on the back in June 1951  Contents of small untitled envelope.	1951
N.28-N.29	19 black and white photographs with manuscript inscriptions on the back and dated in December 1950 (1 photograph only) and April 1951  Found in envelope inscribed 'Professor Lighthill Further experiments with curved plate 2½° and 5° expansion at top of leading edge'.  2 folders.	1950-1951
N.30-N.34	25 black and white photographs with manuscript inscriptions on the back and many dated in April, October - December 1950 and November 1951  Found loose within the envelope.  5 folders.	1950-1951
N.35-N.41	Photographs found loose in the original large envelope	1951-1955, n.d.
N.35	List of enlargements L21-L31 '30/9/52' and 10 black and white prints numbered L21-L31 (L22 missing) with manuscript inscriptions on the back and dated in September 1952  For L1-L18 see N.25, N.26. For L19, L20 see N.47.	1952
N.36	8 black and white photographs numbered H.8, H.20, H.24, H.26, H.29, H.34, H.35 and H.39 and dated in November-December 1952	
N.37-N.38	17 black and white photographs numbered 1-17  2 folders.	N.d.

**Non-textual material, N.1-N.56**

N.39-N.41	18 miscellaneous loose photographs  3 folders.	1951-1955, n.d.
N.42-N.47	<b>Lecture</b>  Contents of envelope inscribed 'Copies of SW lecture photos'	<b>1951, n.d.</b>
N.42	Manuscript and typescript lists of 'Legends for Plates', 'Origin of Prints for Lighthill' etc	
N.43-N.47	42 black and white photographs.  5 folders.	1951, n.d.
N.48-N.52	<b>PHOTOGRAPHIC SLIDES</b>	<b>N.d.</b>
N.48	'Lighthill Biomechanics of Hearing'  Contents of box so inscribed: 8 slides.	N.d.
N.49	'Flagella + Goldstein Lecture'  Contents of box so inscribed: 10 slides.  For Goldstein Lecture see J.57-J.60.	N.d.
N.50	'Ursell Lecture Lighthill'  Contents of box so inscribed: 1 slide only.  For Ursell Lecture see J.66.	N.d.

**Non-textual material, N.1-N.56**

N.51	A set of 20 photographic slides found together and marked with red dot	N.d.
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In slide case.

N.52	A set of 16 photographic slides found together and marked with blue dot	N.d.
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In slide case.

Slides may relate to Lighthill's IDNDR [International Decade for Natural Disaster Reduction] interests such as tropical cyclones.

<b>N.53-N.56</b>	<b>AUDIOTAPES</b>	<b>N.d.</b>
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Sound recordings of four lectures by Lighthill on 'Mathematical Biofluidynamics'.

4 boxed magnetic tapes.

## INDEX OF CORRESPONDENTS

ACADEMIA EUROPAEA	G.49, K.1, M.1
ACADEMIC PRESS INC (LONDON) LTD	H.195A, L.32, L.33, M.75
ACCADEMIA DELLE SCIENZE DI TORINO	A.27
ACHESON, Charles David Nicholas John Sparrow, 7th Earl of Gosford	M.91
ACKROYD, John	H.81, K.619
ACRIVOS, Andreas	K.540, M.244, M.248, M.256, M.258, M.259 See also M.252
<i>ACTA MECHANICA SINICA</i>	M.1
ADAM HILGER LTD	L.47
ADAMS, John Frank	F.53, M.2
ADAMS, R.D.	K.258
ADRIAN, Richard Hume, 2nd Baron	M.2
<i>AERONAUTICAL JOURNAL</i>	M.2
AERONAUTICAL RESEARCH COUNCIL	K.2
AGARWAL, Manju	M.2
AIHARA, Yasuhiko	K.516, K.558
ALEXANDER, Robert McNeill	L.30, M.3
ALFRED P. SLOAN FOUNDATION	M.326
ALKEMADE, Fons	M.3
ALLEN, A.C.	M.4
ALTMAN, Manfred	See M.5
D'AMBROSIO, Ubiratan	M.64
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS	K.544
AMERICAN METEOROLOGICAL SOCIETY	L.98, L.99, L.101, L.103-L.105, M.207, M.214, M.219, M.261, M.262 See also M.209
AMERICAN PHILOSOPHICAL SOCIETY	M.5



**Index of correspondents**

<i>AMERICAN SCIENTIST</i>	M.6
AMERICAN SOCIETY OF MECHANICAL ENGINEERS	M.6, M.195
AMERY, Catherine	D.7
AMSTERDAM ROYAL PALACE FOUNDATION	M.6
ANCIENT INDIA AND IRAN TRUST	M.7
ANDLAUER, L.	M.8
ANDREWS, David	M.9
D'ANGELO, Salvo	M.9
<i>ANNALES GEOPHYSICAE</i>	M.236
ANNAN, Noel Gilroy, Baron	G.42, M.10, M.106
ANNUAL REVIEWS INC	M.11, M.203
APPLEBY, Robert	K.609
APPLETON, S.T.	K.36
<i>APPLIED MECHANICS REVIEWS</i>	M.11
ARANHA, J.A.P.	M.12
ARGYRIS, John H.	M.12, M.203
ARIS, Rutherford	K.27
ARORA, M.S.	M.12
ARTSTEIN, Zvi	M.204 See also M.196
ARYA, Anand	K.406, K.409 See also K.411, K.416
ASANO, Kiyoshi	M.13
ASH, Sir Eric Albert	M.14
ASHKENAZI, Vidal	M.15
ASHLEY OF STOKE, Jack, Baron	M.15
ASHMORE, Jonathan Felix	H.121, M.15, M.269
ASSOCIATION OF TEACHERS OF MATHEMATICS	K.30

# Index of correspondents

THE ATHENAEUM	D.2-D.5, M.16, M.17, M.271, M.277
ATYAH, Sir Michael Francis	J.36, K.621, M.18
AUSTRALIA, GOVERNMENT OF	
DEPARTMENT OF INDUSTRY, SCIENCE AND TECHNOLOGY	M.220
AUSTRALIAN ACOUSTICAL SOCIETY	K.103, M.18
AUTON, T.R.	M.18
AVULA, X.J.R.	M.18
AXFORD, W. Ian	M.19
AZAD, Ram S.	M.19
BAINBRIDGE, Richard	B.92
BAJPAI, A.C.	M.20
BALL, Sir John Macleod	M.20
BALLMANN, J.	M.20
BAMLETT, Michael	J.92
BANERJEE, Kalyan	M.21
BANERJEE, M.B.	M.209, M.215, M.218
BANKS, Leslie	M.22
BARENBLATT, Grigory Isaakevich ('Grisha')	K.437, M.189, M.249, M.261, M.273, M.274, N.11
BATCHELOR, George Keith	H.33, H.63, K.27, K.36, K.472, K.473, K.519, K.546, M.22, M.203, M.231 See also D.2, M.258
BAXENDALE, A.S.	M.23
BEASTALL, D.	N.21
BEDNARCZYK, B.B.	M.23
BELL, Max S.	K.162
BELLAIRS, A. d'A.	M.23
BELLIS, B.T.	K.24, K.39

**Index of correspondents**

BELOFF, Nora	M.23
BELLOT, G. COMTE-	M.23
BENCE, Brian J.	M.24
BENGTSSON, Lennart	K.6, K.10, M.24
BENJAMIN / CUMMINGS PUBLISHING COMPANY	M.25, M.72
BENJAMIN, Thomas Brooke	M.25 See also G.47
BENN, Tony	K.609
BENNETT, Bryan	M.25
BENNETT, Leon	L.32
BENNETT, Patricia	H.181-H.183
BEN SARI, Driss	See K.209
BENTHAM, Jeremy	See M.268
BENTLEY, Charles R.	K.261
BERA, Rajendra K.	M.26, M.186, M.195
BERG, Howard C.	M.250
BERGER, Stanley	See M.26
BERRY, Michael J.	K.236, K.237-K.239, K.241, K.244, K.303, K.396
BERTOCCHI, Luciano	K.249
BEYER, Robert T.	G.43
BHADURI, D.	M.27
BHATNAGAR, P.L.	K.135
BHATT, Bal Swaroop	M.27, M.213, M.228, M.257
BIANCHI, Giovanni	J.67
BICKMORE, D.P.	M.28
BIDDER, Anna McClean	M.28
BIGGS, W.D.	L.32

# Index of correspondents

BILLETT, Harold	G.39
<i>BIORHEOLOGY</i>	M.28
BIRKHOFF, Garrett	K.673
BISHOP, Richard Evelyn Donohue	K.486, K.487
BISHOP, Steven R.	L.69
BLACK, Peter G.	K.308 See L.109
BLACKSTOCK, David T.	See H.195A
BLAKE, John R.	H.124, K.104, K.105, M.29, M.221, M.253 See also G.47
BLAKE, Robert Norman William, Baron	M.29
BLAKE, Robert W.	H.77, H.78. M.30
BLAND, David R.	See G.47
BLUM, J.J.	L.21
BODMER, Sir Walter Fred	See M.31
BOER, E. de	M.31, M.179
BOGDANOR, Vernon	M.31
BOGDONOFF, Seymour	A.29
BOHLE, H.-G.	K.210, K.211, K.214, K.393, K.439 See also K.396
BOLEY, Bruno A.	K.559
BONDI, Sir Hermann	M.31
BONE, Quentin	L.25
BONNET, J.-P.	K.514
BOROK, Volodya I. KEILIS-	K.249, K.251, K.254, K.255, K.377, K.378, K.386, K.420, K.439, K.441, K.506, M.31, M.242 See also K.187, K.259, K.262, K.401, K.440
BOROVIKOV, V.A.	M.32
BOSE, N.	See M.32



**Index of correspondents**

BOSE, S.	M.31
BOSQUET, J.-P.	See M.32
BOVEY, K.S.	M.32
BP VENTURE RESEARCH UNIT	M.33
BRABB, Earl E.	K.260
BRABEN, D.W.	M.33
BRADFIELD, John Richard Grenfell	F.66, M.34 See also F.65
BRAGG, Stephen Lawrence	K.26
BRANKOV, Georgi Jordanov	M.34
BRAS, R.L.	K.308 See also K.340
BRAY, Jeremy William	See J.89
BRENNER, Howard	M.202
BRENTNER, Kenneth S.	M.237
BRETT, Robin	K.267, K.268
BRIDGER, M.	K.37
BRIGHAM, Robert C.	M.238
BRIMELOW, Thomas, Baron	L.6
BRITISH ASSOCIATION	M.34
BRITISH BROADCASTING CORPORATION	D.4, G.49, G.50, K.94, M.23
BRITISH COMPUTER SOCIETY	K.30, M.35
BRITISH COUNCIL	K.3, K.6, K.7, K.9, K.12, L.55, L.86, M.36, M.37
BRITISH EMPIRE CANCER CAMPAIGN FOR RESEARCH	E.13
BRITISH SOCIETY FOR THE HISTORY OF MATHEMATICS	M.248
BRITISH TECHNION SOCIETY	M.38
BRITISH THEORETICAL MECHANICS COLLOQUIUM	M.38
BRIXTON ESTATE LIMITED	M.38

**Index of correspondents**

BROCHER, E.	M.38
BROOM, Trevor	K.473
BROWITT, C.W.A.	K.244
BROWN, Susan N.	H.44, H.123 See also G.47
BRUINS, E.M.	M.39
BRUNEL UNIVERSITY	M.40
BRYANT, Cyril	B.92
BUDAL, K.	M.40
BUDD, Sir Alan Peter	L.50
BULGARIAN ACADEMY OF SCIENCES	M.40
<i>BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY</i>	L.98, L.99, L.101, L.103-L.105 See also L.97
BUREAU OF APPLIED SCIENCES LTD	M.40, M.66
BURGEN, Sir Arnold Stanley Vincent	M.1
BURGHES, David N.	K.161, K.162
BURKE, Kevin	K.378
BURN, Robert	M.40
BURNS, J.H.	G.49
BUSINESS EDUCATION COUNCIL	M.40
CABANNES, Henri	J.51
CALDER, Nigel David Ritchie	M.41
CALINGER, Ronald	M.41, M.326A
CALLADINE, Christopher Reuben	B.69, M.41
CALLAGHAN, P.	M.41
CAMASSA, Roberto	M.255
CAMBRIDGE PHILOSOPHICAL SOCIETY	M.42

# Index of correspondents

CAMBRIDGE UNIVERSITY PRESS	K.471, M.43-M.45, M.326
CAMPEDELLI, Luigi	K.121
CAMPOS, Luis Manuel Braga da Costa	L.58, M.46, M.320 See also K.483
CANADIAN ACOUSTICAL ASSOCIATION	K.115, K.116, K.484
CANNON, Jane	M.46
CANNON, R.H., Jr	L.45
CARGILL, A.M.	H.51
CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND	M.321-M.323
CARO, Colin Gerald	E.6-E.9, E.11-E.17, H.124, K.263, M.33, M.47, M.277
CARSON, David J.	L.88, L.90
CARTAN, Henri	K.121, K.125
CARTWRIGHT, David Edgar	M.242 See also K.99
CARTWRIGHT, Dame Mary Lucy	M.48
CASADEVALL, Tom	K.388
CASSELS, John William Scott	K.22
CATTERALL, Peter	M.276, M.277
CEKIRGE, H.M.	M.48
CHAGELISHVILI, George D.	M.268
CHAKRABORTY, B.B.	M.51, M.239
CHALLENGER, D.G.	K.27
CHALLIS, Lawrence John	M.48
CHAMSEDDINE, Ali	M.274
CHANDRASEKHARAN, K.	K.128, K.132
CHANG, Chien-Chang	M.201, M.227
CHAOS, SOLITONS AND FRACTALS	M.51
CHASHECHKIN, J.D.	M.50, M.51

### Index of correspondents

CHATAWAY, Sir Christopher John	K.603
CHAWLA, S.S.	M.50
CHENG, H.K.	G.60, J.73, M.52-M.56
CHERNYI, G.G.	K.513, M.57, M.197
CHESTER, W.	M.57
CHESTERS, John Hugh	M.169
CHEUNG, Y.K.	K.510, M.58
CHILLAG, David	M.251
CHINESE JOURNAL OF MECHANICS PRESS	M.254
CHORIN, Alexandre	M.272
CHOUDHURY, Jamilur R.	K.409, K.410, K.411, K.415, K.416, See also K.394, K.421, K.422
CHRISTIANSEN, Bent	K.138, K.162
CHU, Jean Juming	K.392, K.395, K.397, K.399, M.58, M.210, M.224 See also K.390
CHURCHHOUSE, Robert Francis	K.24, M.58
CHWANG, Allen T.	L.27, L.45, M.58, M.211, M.212, M.219, M.235, M.238, M.251 See also M.260
CISM (INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES, UDINE)	M.151, M.152
CLARK, George Sidney Roberts KITSON	F.54
CLARK, Robin Jon Hawes	M.59
CLARKE, John Frederick	M.59
CLARKE, Sir Richard W.B.	K.27
CLARKSON, Brian L.	K.544
CLOUPEAU, M.	L.31
COALES, John Flavell	K.38
COHEN, Sir Bernard WALEY-	See G.39
COHEN, Gideon	M.60



**Index of correspondents**

COHEN, I. Bernard	M.326
COLDSTREAM, Nicholas	M.60 See also G.57
COLE, Julian	M.249, M.250 See also M.255, M.258
COLES, Bryan Randell	M.60, M.246
COLLINS, Ian F.	M.60
COMBRIDGE, John Theodore	K.14, K.27-K.29
COMMITTEE OF INQUIRY INTO THE TEACHING OF MATHEMATICS	M.326A
COMPANY OF BIOLOGISTS LTD	M.212
COMPUTATIONAL MECHANICS PUBLICATIONS	M.254
CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES, WASHINGTON, D.C.	F.20
CONFERENCE OF PROFESSORS OF APPLIED MATHEMATICS	M.61
<i>CONTEMPORARY PHYSICS</i>	M.61
CONWAY, D.E.	K.33
CONWAY, Hugh G.	K.35
COOK, Sir Alan Hugh	K.669
COOKE, R.U.	G.49
COOKER, Mark J.	M.239
COOPER, Sir Frank	M.158
COPPOCK, J.T.	M.61
CORDANI, Umberto	K.302, K.377, K.378
CORFIELD, Nick	M.268
CORRSIN, Stanley	M.61
COSTEN, Robert C.	M.258
COUNCIL FOR INDUSTRY AND HIGHER EDUCATION (CIHE)	M.59
COURTNEY, A.L.	L.2

**Index of correspondents**

CRAIG, George C.	L.96
CRANE, L.J.	M.254
CRANSTON, W.I. ('Bill')	E.9
CRIGHTON, David George	H.34, H.78, H.94, K.509, K.513, M.62, M.243, M.248, M.252, M.253, M.261, M.264, M.271, M.273 See also H.77, H.96, K.508, M.254, M.255, M.270
CROCKER, Malcolm J.	H.94, J.83, L.108, M.218, M.243, M.245, M.251, M.260-M.262, M.265, M.275, M.277 See also H.121, J.84, M.249, M.250
CROUCHER FOUNDATION	M.265, M.266
CROW, John A.	M.62
CROWE, Sir Colin	M.63
CULHANE, J. Leonard	K.610
CUMBERBATCH, Ellis	M.63, M.203
CUMMINS, W.E.	L.26
CURTIS, A.R.	K.35, K.36
DAM, C.P. van	J.73
DANDAPAT, B.S.	M.64
DANI, S.G.	M.64
DANIEL, R.R.	K.208, K.309
DANIELS, Peter G.	M.272, M.273
DAS, K.P.	M.64
DATTA, Naomi	M.64
DAVENPORT, Alan G.	K.395, K.407, K.410, K.411, K.420, K.421 See also K.409, K.416
DAVENPORT, Harold	K.26
DAVIS, Stephen H.	F.26

**Index of correspondents**

DAWID, A. Philip	L.50
DAY, Michael H.	L.46
DEAN, Sir Maurice	K.95
DEBNATH, Lokenath	M.231, M.233, M.276
DECAUX, Alain	M.65
DE LAS ALAS, J.	K.309
DELSOL, F.	K.310
DeMARIA, Mark	K.310
DENNESS, Bruce	M.66
DENNIS, Ian H.	M.67
DENTON, Sir Eric James	B.143 See also H.85, J.57
DEUTSCHE AKADEMIE DER NATURFORSCHER LEOPOLDINA	A.47, M.67
DEUTSCHE GESELLSCHAFT FÜR LUFT- UND RAUMFAHRT	A.53, G.45, M.67, M.240
<i>DICTIONARY OF NATIONAL BIOGRAPHY</i>	M.29, M.67
DIONISOTTI, Carlotta	M.68
DiPRIMA, R.C.	M.68
DIXON, Bernard	H.83
DODGSON, J.M.	M.68
DOLLERY, Sir Colin Terence	M.68
DONOVAN, S.L.	M.68
DOOGE, James C.I.	G.59, M.69, M.274
DOUGLAS AIRCRAFT COMPANY	M.70
DOWMAN, Ian	K.616, K.617
DOWNING, Thomas E.	G.59, K.212
DRAZIN, Philip G.	M.70
DRUCKER, Daniel C.	K.551, K.575



**Index of correspondents**

DUBE, G.S.	M.70
DUBE, S.K.	K.310, M.236, M.237, M.258
DWARAKANATH, G.S.	M.70
DYSON, Freeman John	M.70
EARLES, S.W.E.	M.71
EASINGWOOD, J.	K.27
EASTERLING, John E.	A.54
EDWARDS, Sir Sam (Samuel Frederick)	M.59
EISENBERG, Theodore	M.254
ELCOCK, E.W.	K.669
ELGIN, Joseph C.	A.29
ELIEZER, Christie J.	M.71
ELL, Peter Josef	M.71
ELLINGTON, Charles Porter	L.106
ELLIOTT, David	M.326A
ELNASCHIE, M.S.	K.493, M.71 See also K.497
ELO, Olavi	K.374, K.382, K.385, K.386, K.395, K.399, K.400, K.403-K.405, K.407, K.411, K.420, K.422, K.449 See also K.392, K.440
ELSBERRY, Russell L.	G.59, K.285, K.311, K.342
ELSEVIER SCIENCE B.V.	M.254
EMANUEL, Kerry A.	K.262, K.312, K.321, K.347, K.348, L.93, L.96, L.98, M.217 See also K.187, K.452, L.88, L.95, L.97
<i>ENCYCLOPEDIA OF MATHEMATICS</i>	M.72
<i>ENCYCLOPEDIA OF SYSTEMS AND CONTROL</i>	M.72
<i>ENDEAVOUR</i>	K.673, K.675



# Index of correspondents

ENEVER, K. J.	M.72
ENGELBRECHT, J.	M.73
ENGINEERING AND PHYSICAL SCIENCES RESEARCH COUNCIL (EPSRC)	M.205, M.211, M.276
<i>ENGINEERING MATHEMATICS</i>	M.73
ENGLISH-SPEAKING UNION OF THE COMMONWEALTH	M.322
EVANS, David V.	K.474
EUROMECH EUROPEAN MECHANICS SOCIETY	M.243
EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS	M.73
<i>EUROPEAN GAY REVIEW</i>	M.73
EUROPEAN MECHANICS COLLOQUIA	M.73
<i>EUROPHYSICS JOURNAL</i>	M.73
EVANS, David	M.228
EVANS, Jenni L.	L.93, L.97 See also L.96
EZRATY, Robert	K.311
FABRIKANT, Valery I.	M.74
FARTHING, Simon	M.75
FATMI, H.A.	M.75
FAULKNER, Douglas	M.76, M.132
FAVRE, A.	M.76
FEDORCHENKO, Alexander T.	M.249, M.250
FELLOWSHIP FOR OPERATIONAL RESEARCH	J.55
FELLOWSHIP OF ENGINEERING	See ROYAL ACADEMY OF ENGINEERING
FERNANDES, Antonio Carlos	M.78
FERRARI, Carlo	A.27, M.78
FFOWCS-WILLIAMS	See WILLIAMS, J.E. FOWCS-

**Index of correspondents**

FIFIELD, Christopher	M.78
<i>FINANCIAL TIMES</i>	H.16
FISH, Frank E.	M.201
FISZDON, W.	K.518, M.79
FLATHER, Roger A.	K.99, K.354, M.243, M.247
FLECK, James	M.80
FLETCHER, Trevor J.	K.134
FLINN, Shirley	M.81
FLOCK, K.A.I.	See M.81
FLOWERS, Brian Hilton, Baron	K.668, K.670, K.672, M.47, M.81, M.106 See also G.57
<i>FLUID DYNAMICS RESEARCH</i>	M.82
FOGH, Torkel WEIS-	L.21, L.23, L.25, L.28-L.31
FOLEY, Gary R.	K.313 See also L.109
FOLLETT, Sir Brian Keith	M.83
FONG Ching-Zhen	M.83
FORD, Sir Hugh	E.7
FOREMAN, John	M.271
FORREST, A. Pat. M.	M.83
FORREST, J.R.	M.34
FOURCIN, Adrian	M.83
FOX, Leslie	M.321
FRANCIS, P.H.	M.83
FRANKLIN, Raoul N.	M.259
FREEMAN, Richard	M.83
FRENKIEL, Francois N.	K.518, K.519, K.575
FREUD MUSEUM	M.84

**Index of correspondents**

FREUDENTHAL, H.	K.120, K.121, K.141
FUJII, Sumiji	M.85
FUNG, K.-Y.	L.85
FYFE, W.S.	See K.187
GABRIELOV, Andrei	J.75, L.73, M.114
GAD-EL-HAK, M.	M.263
GADD, G.E.	K.25
GADGIL, Sulochana	K.569
GAJJAR, J.S.B.	M.86
GARRETT, C.J.R.	M.86
GARRETT, Terry	M.86
GAS RESEARCH INSTITUTE, CHICAGO	M.87
GASTER, Michael	K.610, K.616
GAUT, Geoffrey C.	K.604
GEE, F.C.	A.54, M.88
GELLER, Robert J.	M.219, M.227, M.228, M.265, M.277
GEORGE, Patrick	G.49
GERMAIN, Paul	K.416, K.506-K.508, K.513, K.516, K.525, K.535, K.536, K.539, K.540, K.559, M.88 See also K.484, K.514, K.517, M.210
GHONIEM, A.F.	See M.203
GIARDINI, Domenico	G.64, K.226, K.236, K.241-K.243, K.246, K.247, K.394, K.398, K.399, K.413, K.437, K.439, K.442, K.446 See also K.187, K.387, K.392, M.206
GIBBS, Debbi	M.88
GIBBS, P.	M.88

**Index of correspondents**

GIBILARO, Larry G.	M.89, M.204 See also B.125
GIBLIN, Roger A.	M.89
GIESECKE, A.A.	See K.406, K.409, K.411, K.416
GILES, David Laurent	M.90, M.137, M.171
GILL, Adrian	M.89
GILLESPIE, William H.	M.84
GINIS, Isaac	K.314 See L.109
GODDARD, Peter	M.190, M.272
GODFREY, Malcolm	M.91
GODLEY, Michael	M.91, M.268
GOHEEN, Robert F.	A.29
GOLD, Thomas	M.265
GOLDSMITH, Maurice	K.141, M.325
GOLDSPINK, Geoffrey	L.32
GOLDSTEIN, David J.	See H.81
GOLDSTEIN, Marvin E.	M.91 See also H.94
GOLDSTEIN, Rosa	See H.81, M.91
GOLDSTEIN, Sydney	M.91
GOLITSYN, George S.	M.265
GOOD, Irving John	K.23
GOODWIN, E.T.	K.37
GÖRTLER, Henry	K.543
GOSFORD, Earl of	See ACHESON
GOVERNMENT OF BANGLADESH METEOROLOGICAL DEPARTMENT	K.342
GOVERNMENT OF COLOMBIA	



**Index of correspondents**

MINISTRY OF MINES AND ENERGY	K.269
GOVERNMENT OF INDIA	
DEPARTMENT OF OCEAN DEVELOPMENT	K.259
GOVERNMENT OF PAPUA NEW GUINEA	
DEPARTMENT OF MINING AND PETROLEUM	K.269, K.357
GOWER, Michael	M.91
GOWING, Margaret Mary	M.91
GRANGER, Robert	M.92
GRAY, Sir James	B.102
GRAY, Margaret	M.92
GRAY, William M.	K.314 See also L.88, L.95, M.249
GREAT BRITAIN AND NORTHERN IRELAND	
AIR MINISTRY	D.1-D.7, L.2, L.6
DEPARTMENT OF EDUCATION AND SCIENCE	K.134, K.586 See also K.585
DEPARTMENT OF INDUSTRY	K.609
MINISTRY OF DEFENCE	M.158
MINISTRY OF OVERSEAS DEVELOPMENT	K.569
MINISTRY OF POSTS AND TELECOMMUNICATIONS	K.603
MINISTRY OF SUPPLY	D.1
NATIONAL AERONAUTICAL ESTABLISHMENT, BEDFORD	N.21
OVERSEAS DEVELOPMENT ADMINISTRATION	K.347
GREEN, Peter J.	M.211, M.239
GREENE, Graham Carleton	M.92
GREENHOW, Martin J.	M.92
GREENSPAN, Harvey P.	K.673
GREENWICH FORUM	M.93, M.94

# Index of correspondents

GREGERSON Søren	K.314
GREGORY, Nigel	E.11
GRIBBEN, Ron J.	K.611
GRIFFITH, T.G.	M.95
GRIFFITH, Wayland C.	M.95, N.24
GRIGORYAN, S.S.	L.31
GRIMSHAW, Roger Hamilton James	K.314, K.516, M.249, M.272, M.273
GRINCHENKO, V.	M.203
GROOTENHUIS, Peter	M.106
GROSSBERG, Stephen	M.96, M.166
GROSSO, Giuseppe	A.27
GUARD, Charles H.P. ('Chip')	K.314, L.98
GUERON, Shay	M.256, M.258
GUEST, J.E.	M.96
GUO Zhong-heng	M.96
GUPTA, A.S.	M.96
GUPTA, J.R.	M.96
GUPTA, Satyendra P.	K.412
GUTKOWSKI, W.	K.568
HAINES, Andrew	G.49
HALL, Alfred Rupert	K.549, K.553, K.664, K.666, K.667
HALL, Robert E.	M.97
HAMILTON, Robert M.	K.259, K.303 See also K.187, K.300, K.301, K.395, K.440
HAMMERSLEY, John Michael	K.29, K.34, K.35, K.37 See also K.28
HANDLEY, E.W.	M.97
HARDIN, J.C. ('Jay')	H.96

**Index of correspondents**

HARDMAN, David J.	M.114
HARDMAN, Sir Henry	D.1, D.2
HARLEN, Oliver	M.97
HARPER, David G.	M.97
HARRIS, Rosemary	M.97
HARRISON, John	M.97
HARTLEY, Frank R.	M.246
HARTLEY, Sir Harold (Brewer)	M.325, M.326
HARVEY PRIZE FUND	G.43, M.242, M.243
HASIMOTO, H.	M.98
HASIMOTO, Ziro	M.98
HAWKER, Jeff	M.274
HAWKING, Stephen William	M.98
HAYAKAWA, M.	K.265
HAYASHI, Yoshio	M.98
HAYES, Michael	M.98
HAYES, W.D.	See A.29
HAYMAN, Walter Kurt	M.98
HEGINBOTHAM, Wilfred B.	K.679
HEIMANN, Paula	M.99
HEINEMANN EDUCATIONAL BOOKS	M.99
HELE, Desmond KING-	M.125 See also K.99
HE Lin	K.374
HELLENIC SOCIETY FOR THEORETICAL AND APPLIED MATHEMATICS	L.55, M.267
HEMPTINNE, Xavier de	M.99
HEMS, Benjamin Arthur	K.658
HENDER, V.C.	M.99

**Index of correspondents**

HEPPLE, B.A.	M.99
HERAKOVICH, Carl T.	M.100
HERPIN, A.	M.100
HESSELINK, L.	M.100
HEUGHAN, D.M.	M.100
HIDE, Raymond	B.163, B.167, H.44
HIGGINS, Michael Selwyn LONGUET-	B.168, M.143 See also H.189
HILL, Christopher	M.101
HILL, Dame Elizabeth	M.101
HINCH, E. John	M.21
HINCHCLIFFE, R.	M.101
HINTON OF BANKSIDE, Christopher Hinton, Baron	K.648
HIORNS, R.W.	K.52, K.57, K.58, K.100
HOARE, Sir (Charles) Anthony (Richard)	M.101
HOBBS, Stephen	M.188
HOCKING, Leslie M.	G.48, M.21
HODGE, Philip G., Jr	K.541
HODGE, Sir William Vallance Douglas	K.30 See also K.28
HODGES, Andrew P.	M.101
HOFFMAN, Alan J.	M.101
HOGG, D.L.	M.240
HOLDER, Douglas William	K.658
HOLLAND, Greg	K.283, K.304, K.306, K.315-K.317, K.347, K.452, L.97, L.101, L.103, L.105, M.223 See also H.99, J.96, L.96, L.109, M.249
HOLLINGDALE, S.H.	K.27



**Index of correspondents**

HOLLIS, G.E.	K.614
HOLMES, Mark H.	M.180
HOLWILL, Michael Edwin John	M.206, M.212, M.214, M.251, M.253, M.263
HOMENTCOVSCHI, D.	M.101
HOOKE, William H.	K.269, K.302
HOOKER, Sir Stanley George	K.658
HOPFINGER, Emil J.	See H.100, H.116
HOPKINS, H. Geoffrey	M.102
HOSKIN, Michael	M.325
HOSKINS, Brian John	K.318, M.238
HOWARTH, Leslie	See H.811
HOWE, Michael S.	H.123
HOWSON, Geoffrey	K.145, M.102
HUFFMAN, David A.	K.669
HUI, Clifford A.	M.103
HULT, Jan	K.175, K.467-K.476, K.478, K.491, K.518, K.519, K.523-K.526, K.540, K.544, K.545, K.549, K.550, K.582, K.583
HUM, David Maurice	M.103
HUNT, Julian Charles Roland, Baron	H.123, K.98, K.318, K.348, K.377, K.415, M.199, M.237, M.240, M.258, M.274, M.275 See also J.96, K.224, K.421, L.97
HUPPERT, Herbert E.	M.103
HURLBUT, Franklin	M.103
HUSSAIN, A.K.M. Frank	M.103
HUSSAINI, M.Yousuff	H.122, K.355, M.206, M.228, M.243, M.252 See also M.250, M.251, M.254, M.259

**Index of correspondents**

HUTTER, K.	M.103
HUXLEY, Sir Andrew (Fielding)	A.54 See also J.61
IBIEJUGBA, M.A.	M.104
ILLINGWORTH, C.R.	M.105
IMAI, Isao	K.541, M.105
IMPERIAL CHEMICAL INDUSTRIES LTD	M.105
IMPERIAL COLLEGE LONDON	M.106
<i>INDEPENDENT</i>	M.107
INDIAN INSTITUTE OF SCIENCE, BANGALORE	M.107
INDIAN INSTITUTE OF TECHNOLOGY, DELHI	K.3-K.13, M.267
INDIAN MATHEMATICAL SOCIETY	M.107
INDIAN NATIONAL SCIENCE ACADEMY	K.576, M.107
INDIAN SCIENCE CONGRESS ASSOCIATION	M.107
INDIAN SOCIETY OF THEORETICAL AND APPLIED MECHANICS (ISTAM)	M.116
INGRAM, David J.E.	M.108
INSTITUT DE FRANCE	M.108
INSTITUTE FOR ADVANCEMENT OF SCIENCE AND TECHNOLOGY TRAINING, DACCA	M.108
INSTITUTE FOR COMPUTER APPLICATIONS IN SCIENCE AND ENGINEERING (ICASE)	M.206
INSTITUTE FOR SCIENTIFIC INFORMATION	H.83
INSTITUTE OF ACOUSTICS	M.109
INSTITUTE OF ADVANCED LEGAL STUDIES	M.109
INSTITUTE OF CIVIL DEFENCE AND DISASTER STUDIES	M.109
INSTITUTE OF CONTEMPORARY ARTS LTD (ICA)	M.105
INSTITUTE OF EDUCATION	M.109
INSTITUTE OF LARYNOLOGY AND OTOTOLOGY	M.109

**Index of correspondents**

INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS	H.49-H.51, H.75, K.14-K.100, K.586, K.587, L.38, M.229, M.259, M.261 See also H.102
INSTITUTE OF NOISE CONTROL ENGINEERING	M.109
INSTITUTE OF OCEANOGRAPHICAL SCIENCES	M.109
INSTITUTE OF PHYSICS	D.7, K.39
INSTITUTE OF PHYSICS PUBLISHING	H.104, M.237, M.263 See also M.248
INSTITUTE OF STATISTICIANS	K.30
INSTITUTION OF CHEMICAL ENGINEERS	G.61, M.110
INSTITUTION OF CIVIL ENGINEERS	G.40, K.56, K.256, K.403, K.406- K.408, K.413, M.233 See also J.92A
INSTITUTION OF ELECTRICAL ENGINEERS	G.45, M.111
INTER-AMERICAN COMMITTEE ON MATHEMATICAL EDUCATION	K.131
INTERNATIONAL ACADEMY OF ASTRONAUTICS	M.112
INTERNATIONAL ASSOCIATION OF ENGINEERING GEOLOGY	K.301
INTERNATIONAL ASSOCIATION OF METEOROLOGY AND ATMOSPHERICS	K.215
INTERNATIONAL ASSOCIATION OF SEISMOLOGY AND PHYSICS OF THE EARTH'S INTERIOR	M.195
INTERNATIONAL ASTRONAUTICAL FEDERATION	M.113
INTERNATIONAL ASTRONOMICAL UNION	K.482
INTERNATIONAL BAR ASSOCIATION	M.113
INTERNATIONAL COMMISSION ON ACOUSTICS	K.101-K.119, K.531
INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION (ICMI)	K.120-K.172
INTERNATIONAL CONFERENCE ON NONLINEAR MECHANICS	M.113, M.117
INTERNATIONAL COUNCIL FOR SCIENTIFIC AND TECHNICAL INFORMATION (ICSTI)	K.483, M.113



# Index of correspondents

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS	K.173-K.463, M.113
COSTED	K.208, K.209, K.308, K.309
INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION (IDNDR)	K.182-K.463, M.216, M.223, M.227
INTERNATIONAL GEOGRAPHICAL UNION	K.215, K.217, K.221
INTERNATIONAL INSTITUTE OF ACOUSTICS AND VIBRATION (IIAV)	M.260, M.262, M.271 See also L.108
INTERNATIONAL INSTITUTE OF NOISE AND CONTROL ENGINEERING	M.262
<i>INTERNATIONAL JOURNAL OF ACOUSTICS AND VIBRATION</i>	M.270, M.272
<i>INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW</i>	M.99, M.114
<i>INTERNATIONAL JOURNAL OF SCIENCE &amp; ENGINEERING</i>	M.114
<i>INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES</i>	M.114
INTERNATIONAL LITHOSPHERE PROGRAM	K.236, K.237-K.239, K.241, K.244
INTERNATIONAL MATHEMATICAL UNION	K.120, K.127, K.128, K.132, K.141
INTERNATIONAL SOCIETY OF BIORHEOLOGY	M.114
INTERNATIONAL UNION OF BIOLOGICAL SCIENCES	L.30
INTERNATIONAL UNION OF GEOLOGICAL SCIENCES	K.255, K.267, K.268, K.385, K.491, K.579, M.213
INTERNATIONAL UNION OF PURE AND APPLIED BIOPHYSICS	L.29
INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY	K.175
INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS	M.115, M.216
INTERNATIONAL UNION OF RADIO SCIENCE	K.251 See also K.265
INTERNATIONAL UNION OF THEORETICAL AND APPLIED MECHANICS (IUTAM)	G.61, K. 111, K.116, K.117, K.176, K.179, K.207, K.331, K.458, K.464-K.583, L.28, L.29, L.74, L.99, M.202, M.211, M.218, M.225, M.240, M.243, M.269 See also L.108, M.248
INTERNATIONAL WATER RESOURCES ASSOCIATION	K.219



### Index of correspondents

INUI, Takao	M.116
ISHLINSKY, A. Yu.	K.541, K.551, M.116
ISLAM, Jamal Nazrul	M.116
ISRAEL ACADEMY OF SCIENCES AND HUMANITIES	M.221, M.223, M.226, M.234, M.236, M.237
IVANOV, Nikolay I.	M.254, M.255, M.261, M.270-M.272 See also M.252
IWASAKI, Toshio	See K.410
IYANAGA, I.	K.133, K.134, K.144
JACKSON, Horace	M.117
JACOBSEN, Finn	M.275
JAFFRIN, Michel Yves	M.206, M.261
JAMES, David F.	M.117
JAMISON, Robin Ralph	M.169
JAPAN SOCIETY OF MECHANICAL ENGINEERS	M.211, M.235
JARRELL, Jerry	K.319 See also L.88
JAYARAMAN, Girija	M.117, M.229, M.230, M.259
JEFFREY, A.	M.117
JEFFREYS, Bertha Swirles, Lady	M.81
JOHN WILEY & SONS, INC.	M.239
JOHN WILEY & SONS LTD	K.484
JOHNS, Bryan	K.262, K.319, K.339, K.348, K.452, M.118
JOHNSON, W.	M.118
JOHNSTONE, Alan	M.118
JOINT MATHEMATICAL COUNCIL OF THE UNITED KINGDOM	K.584-K.590
JONES, Douglas Samuel	H.93, K.37, K.58, M.119

**Index of correspondents**

JONES, Francis Edgar	K.689, K.690
JONES, Gareth	F.54
JONES, Garth Owen	K.674
JONES, Harry	See D.6
JONES, Reginald Victor	M.120
JONES, Robert T.	M.119
<i>JOURNAL OF ATMOSPHERIC AND TERRESTIAL PHYSICS</i>	M.226, M.228
<i>JOURNAL OF COMPUTATIONAL PHYSICS</i>	M.121
<i>JOURNAL OF ENGINEERING MATHEMATICS</i>	M.121, M.204, M.210, M.227, M.240, M.246, M.249 See also M.205
<i>JOURNAL OF EXPERIMENTAL BIOLOGY</i>	M.121, M.226, M.252
<i>JOURNAL OF FLUID MECHANICS</i>	M.203, M.231, M.272
<i>JOURNAL OF FLUIDS ENGINEERING</i>	M.122
<i>JOURNAL OF MATHEMATICAL BIOLOGY</i>	M.122
<i>JOURNAL OF THE ATMOSPHERIC SCIENCES</i>	M.203, M.207, M.208
<i>JOURNAL OF THEORETICAL BIOLOGY</i>	M.122, M.258
JUHASZ, Stephen	K.483, K.484, K.583
KAHN, Franz D.	M.123
KALISZKY, S.	K.509 See also K.508
KAMBE, Tsutomu	M.123
KAMIMURA, H.	M.123
KANDA, Hidesada	M.123
KANDASWAMY, P.	M.123
KAPUR, J.N.	K.573, K.574, K.579, M.123
KATSAROS, Kristina	See L.109
KATYAL, S.P.	M.123
KAUSEL, Edgar	K.259

### Index of correspondents

KAUSEL, Edgar	K.259
KELLAWAY, F.W.	K.28
KELLER, Joseph B.	M.124
KEMP, David T.	K.116 See also H.92, J.61
KEMPSON, Ruth M.	M.124
KENDREW, Sir John Cowdery	K.483, K.492 See also K.482
KENNAWAY, Sasha	M.124
KENT, Percy Edward (Sir Peter Kent)	K.648
KEPERT, Jeff D.	L.91 See also L.109
KERENSKY, Oleg Alexander	M.124
KERR, E.	K.31, K.32
KESTELMAN, H.	K.25
KEYNES, Richard Darwin	L.29
KING, A.C.	M.239
KING-HELE	See HELE
KINGMAN, Sir John Frank Charles	K.685
KING'S SCHOOL, Grantham	M.125
KIRSCHGÄSSNER, Klaus	M.198
KIYA, Masaru	M.125
KLAUBER, Ruth	M.126
KLINE, S.J.	M.238, M.240, M.255
KLUWER ACADEMIC PUBLISHERS	M.229, M.230, M.236, M.238, M.271, M.274
KNIGHT, John H.	K.105
KNIGHTING, E.	K.99
KNOPOFF, Leon	M.127
KNOWLEDGE ENGINEERING REVIEW	M.135, M.183

### Index of correspondents

KO, N.W.M.	L.67
KOBASHI, Yasujiro	M.127
KOENEMANN, Falk H.	M.215, M.218
KOITER, Warner T.	K.525, K.569, K.570, K.583
KOKSHAYSKY, N.V.	L.30, L.31, L.33, M.127
KOLANECI, Fejzi	M.259
KOLSTON, Paul J.	M.272
KONDO, Hiroki	K.320, K.347, K.412, K.415, M.203 See also K.221, K.343, K.388, K.421, L.90
KOOPMANN, Gary H.	J.61
KORDYLEWSKI, Włodzimierz	M.127
KÖRNER, T.W.	M.216
KOUNADIS, A.	L.55, L.56
KOUTITAS, Christopher	M.127
KOZLOV, V.V.	M.127
KRAMER, Dame Leonie	M.242
KRIKOR BAYTARIAN & ASSOCIATES (UK) LTD	M.128-M.130
KRISHNAMURTI, Ruby	M.131
KRISHNAMURTI, T.N.	K.320
KROTHAPALLI, A.	M.131
KRYLOV, Victor V.	M.272-M.274
KUBOR, I.	M.131
KUBOTI, Jiro	K.410 See also K.412
KÜCHEMANN, Dietrich	B.57
KUIKEN, H.K.	M.131, M.202, M.204, M.210, M.227, M.240, M.246, M.249 See also H.118, M.205
KUNDU, P.	M.131



**Index of correspondents**

KURIHARA, Yoshio	K.262, K.281, K.320, K.339, L.88, L.96, L.99-L.101 See also K.341, L.97
KURTI, Nicholas	M.131
KUWAHARA, Kunio	M.131
KYNCH, George J.	K.28
LACEY, Mark	See M.132
LACKENBY, H.	K.26
LAGARDE, A.	M.132
LAI, Choi-Hong	M.251, M.253, M.257, M.263, M.278
LAITHWAITE, Sheila	M.267
LAKSHMINARAYANAN, S.	M.132
LAM, Martin	K.682, M.133-M.136
LAMB, Willis E., Jr	M.259
LAMING, David R.J.	M.176, M.178, M.180, M.181
LANDSBERG, Peter Theodore	K.38
LANDSEA, Chris	L.96, M.192 See also L.97
LANG, William W.	M.262
LANGE & SPRINGER	M.137
LANGFORD, John S.	K.321
LAPWOOD, Ralph	M.137
LARMAN, David G.	G.59-G.64, M.137, M.141, M.258 See also K.104, M.202
LAUTERPACHT, Elihu	A.54, F.66
LAW, F.M.	K.215
LAWS, N.	M.137
LECHAT, Michel F.	K.269

**Index of correspondents**

LEE, Brian	K.224
LEE, D.A.	B.151
LEE, E.B.	M.138
LEE, G.H.	L.2
LEE, Richard C.T.	M.138
LEGENDRE, Robert	L.28, L.29, L.31, M.139
LEHMANN, R.	M.140
LEI, Z.	M.207 See also M.209
LEITCH, Sir George	M.140
LEITER, E.	M.140
LENHER, S.	M.140
LEONARD, M.	See K.386
LEPPINGTON, Frank G.	G.48
LEPSCHY, Giulio	M.140
LEPSCHY, Laura	M.140
LE QUESNE., Leslie P.	G.15
LESIEUR, M.	M.140
LESPINARD, Georges	M.140
LEVERHULME TRUST	E.13, G.48, G.50, G.58, K.29, K.30, K.33, M.141, M.255
LEWIS, John L.	K.138, M.140
LIDL, Rudof	M.326A
LIDSTONE, John	K.384, K.389, K.392, K.438, M.198, M.210
LILLEY, Geoffrey M.	M.142, M.189
LILLY, Sheila	M.142
LIM Chee-Seng	M.51
LINSTEAD, Sir Patrick	D.2, D.3, E.6-E.10, K.29

**Index of correspondents**

LIPPMANN, H.	M.142
LIRON, Nadav	M.239, M.260, M.261, M.273 See also M.238
LIU, Joseph T.C.	M.142
LIUBIMOV, G.A.	K.270
LIVESEY, Jim L.	M.142
LOCK, J.M.	B.12
LONDON INTERCOLLEGIATE LUNCHEON CLUB	M.112, M.143
LONDON MATHEMATICAL SOCIETY	K.29, M.143
LONG, Ong Eng	K.412, K.416
LONGUET-HIGGINS	See HIGGINS
LOUGHBOROUGH UNIVERSITY	M.144, M.145
LU Jiaxi	M.117 See also M.146
LUCAS, David KEITH-	M.146
LUCAS, Ian A.M.	M.146
LUGOVTSOV, B.A.	M.146
LUKES, T.	M.146
McCARTNEY, Brian S.	M.243
McCUTCHEN, Charles W.	M.177
McEWEN, Ewen	M.147
MacFARLANE, Alastair George James	M.147
McGEER, Tad	K.322, M.187 See also K.387, K.410
McGRAW-HILL BOOK COMPANY	A.11
McGROUTHER, D.A.	M.147
MacKAY, Robert	M.147, M.177, M.178
McKEE, S.	M.147

# Index of correspondents

McKENZIE, J.F.	M.206
McKINTYRE, Michael E.	K.323, K.339, M.147, M.232 See also H.89
McNALLY, Derek	M.147
McNICOL, G.P.	M.147
MAA, Dah-You	L.62
MACHIN, K.E.	B.115
MAINGUET, Monique	H.195A
MAJHI, S.N.	M.148
MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY	B.61, M.148
MANDAL, B.N.	M.148
MANDAL, K.K.	M.148
MANSFIELD, E.H.	K.27
MARCHUK, Gury I.	L.10 See also M.149
MARDIA, K.V.	K.396
MARJORAM, D.T.E.	K.27
MARKIN, Vladislav	M.208
MARKLAND, Eric	M.149
MARRIOTT, Harry	M.149
MARTIN, Bernard W.	M.149
MARTIN, E. Dale	H.193
MASON, Sir (Basil) John	L.47
MASON, Paul James	M.246, M.262
MAST, T. Douglas	M.149
MASURE, Philippe	K.253, K.256, K.301
MATHEMATICAL ASSOCIATION	M.150, K.591-K.602
MATHEMATICAL GAZETTE	M.212



# Index of correspondents

<i>MATHEMATICAL SPECTRUM</i>	M.150
<i>MATHEMATIKA</i>	M.150
MATSUNO, T.	See K.324
MATSUZAKI, Yuji	M.235
MATTHEWS, Geoffrey	K.94, K.95
MATTHEWS, Sir Peter	G.46, G.50, M.150
MAUNDER, Leonard	M.151
MAXWELL, Betty	M.151
MAXWELL, Edwin A.	K.125, K.127, K.128, K.132, K.141- K.145, K.148, K.150
MAXWELL, (Ian) Robert	M.153
MAXWORTHY, Tony	M.254, M.255
MAZUMDER, B.S.	M.229
MAZUMDER, N.C.	M.262, M.267
MECHANICAL ENGINEERING PUBLICATIONS LTD	M.154
MEDAWAR, Jean, Lady	M.154
MEDICAL RESEARCH COUNCIL	E.9, E.11
MEES, Alastair Iain	M.321-M.324 See also G.47
MEI, Chiang C.	M.235, M.237, M.238
MELTZER, Bernard	K.670
MENON, M.G.K.	M.154
MERLANE, Graham	K.591
MERRIMAN, James Henry Herbert	K.604, K.605, K.607-K.609
MERTON SCIENTIFIC SOCIETY	M.154
METEOROLOGICAL OFFICE	M.155, M.240, M.246, M.262
MEYER, Richard E.	G.47
MICHEL, R.	K.509, K.510
MICHIE, Donald	K.669-K.673

# Index of correspondents

MIDWINTER, John Edwin	K.611
MIKHAILOV, Gleb Konstantinovich	K.541, M.156, M.157
MILES, John W.	L.50, M.158
MILES, Tim R.	M.158
MILLAR, Fergus G.B.	M.158
MILLER, Keith J.	K.473, K.475, K.481, K.487, K.499, M.158
MILLER, Martin	K.324
MILLING, M.C. CROWLEY-	M.63
MILLS, John R.	D.6
MILOH, Touvia	H.87
MINSKY, Marvin	K.675
MIZUNO, Masamitsu	K.409
MOFFATT, Henry Keith	H.77, H.124, K.477, K.505, K.509, K.526, K.527, K.529, K.535, K.541, K.551, K.553, K.557, K.559, K.560, K.568, M.159 See also H.78, K.497, K.509, K.536
MÖHRING, W.	M.160
MOLINARI, John	K.324
MONTGOMERY, Michael T.	K.324
MOODIE, Bryant	M.160
MOORE, Andrew	M.278 See also B.104A
MOORE, Ian M.H.	K.386, K.395, K.407, K.410, K.416, K.441 See also K.392
MORITZ, Helmut	K.207, K.255, K.324, K.394
MORTON, Bruce	M.160
MOURELATOS, Z.P.	M.160
MÜLLER, E.-A.	K.544

# Index of correspondents

MURDOCH UNIVERSITY, PERTH, WESTERN AUSTRALIA	M.160
MURRAY OF NEWHAVEN, Keith Anderson Hope Murray, Baron	K.37, M.326
MUSAFIR, R.E.	M.160
MUSTOW, Stuart	K.403, K.407, K.408
NACHTIGALL, W.	M.161
NAGY, A. SZÖLLÖSI-	K.217
NAKASHIMA, Motomu	M.225, M.229, M.230, N.12
NARASIMHA, Roddam	K.541, K.571, M.161, M.249, M.275
NASTASE, Adriana	M.161
NATIONAL ACADEMY OF ENGINEERING, WASHINGTON, D.C	M.77, M.161, M.271
NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C.	M.162, M.253, M.256, M.257
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.	M.163, M.256
NATURAL ENVIRONMENT RESEARCH COUNCIL	M.31, M.166
<i>NATURE</i>	K.27, M.164, N.165
NEALE, Elfreda, Lady	M.166
NEEDMAN, Roger Michael	K.670 See also K.678, K.685
NEILL, Hugh	K.588, K.590
NEREM, Robert M.	J.61, M.166, M.243
NEUMANN, Bernhard H.	K.121
<i>NEURAL NETWORKS</i>	M.166
NEWBERY, David	F.65
NEWHALL, Christopher G.	K.268-K.270, K.388, K.441, K.450, L.86 See also K.187, K.387, K.392
NEWLAND, David E.	M.223, M.268, M.274, M.275 See also M.256

# Index of correspondents

NIELSON, Knut SCHMIDT-	L.21, L.29, L.31, L.33
NIETO, J.N.	M.167
NIGAM, S.D.	M.167 See also K.325
NIORDSEN, Frithiof I.	K.544, K.551, K.570, K.571, L.28, L.29
NOAKES, Richard	M.271, M.272
NOISE AND VIBRATION CONTROL SOCIETY	M.254
NORTHERN RESEARCH AND ENGINEERING CORPORATION INTERNATIONAL	D.7
NORTH-HOLLAND PUBLISHING COMPANY	M.168
NUFFIELD FOUNDATION	E.15, M.168
MATHEMATICS TEACHING PROJECT	K.94, K.95
<i>NUMERICAL METHODS IN FLUIDS</i>	M.168
O'BRIEN, James J.	M.169, M.192 See also K.325
OCKENDON, John R.	M.169
ODABASI, A. Yucel	M.169
O'DONNELL, T.	See K.99, K.100
OHNISHI, Haruo	K.325
OLHOFF, Niels	K.560 See also J.96
OLIVEIRA, Janet B. JONES-	M.119
OLLERENSHAW, Dame Kathleen	M.169
OOI, See Hai	K.325
OOYAMA, K.V.	K.325
OSBORNE, A.R.	M.170
OSBORNE, Nicola	M.170
OSSE, J.W.M.	L.33



**Index of correspondents**

OWEN, Paul Robert	E.8, E.16 See also M.171
OXFORD AND CAMBRIDGE MUSIC CLUB	M.172
OXFORD UNIVERSITY PRESS	H.49-H.51, K.58, M.174, M.251
OXFORD JOURNALS	M.173
OYA, Masahiko	K.215, K.217 See also K.219
PACK, Donald Cecil	K.23, K.27, K.30, K.33, K.37, K.38 See also G.47, K.26
PANZA, Giuliano F.	K.254, K.259
PARKES, Sir Edward (Walter)	G.45 See also H.81
PATTERSON, E.M.	L.38, K.97
PATVIVATSIRI, Patipat	K.326
PEARCE, R.P.	K.326, K.327, K.347 See also K.262
PEDLEY, Timothy John	K.8, K.564, L.31-L.33, M.263 See also G.47, H.89, H.90, M.229
PEKERIS, Chaim Lieb	See H.81
PENGUIN BOOKS LTD	K.100
PENNEY, William George Penney, Baron	K.689, K.690
PENNYCUICK, Colin J.	See J.57
PEREGRINE, D. Howell	M.188
PERGAMON PRESS	M.51, M.153
PETERS, M.T.	G.54
PHILLIPS, Charles K.	L.28
PHILLIPS, Owen	M.272
PHYSICAL SOCIETY OF JAPAN	M.123
PICKFORD, Lillian Mary	M.23
PIPPARD, Sir (Alfred) Brian	H.104 See also H.115

# Index of correspondents

PLANT OF HIGHFIELD, Raymond Plant, Baron	M.273
PLATE, Erich J.	K.410, K.411, K.450, M.216 See also K.187, K.386, K.387, K.392, K.440, M.254
PLATÉ, Nicolai	M.254, M.262, M.266
PLAYFAIR, Sir Edward	M.10
PLESSEY COMPANY LTD	See D.6
POLL, D. Ian A.	J.57
PORTER, George, Baron	K.508, K.509, K.619 See also K.610
POST OFFICE BOARD	K.603-K.609
POWELL, Michael J.D.	K.35, K.36, K.690 See also K.37
PRABHU, K.S.	M.7
PRESS, Frank	K.248
PRICE, William Geraint	See K.567
PRIMEL, L.	K.252
PROBSTEIN, Ronald F.	J.78, M.245
PROPHET, Arthur	G.40
PROSPERETTI, Andrea	M.256
PUDOV, Vladimir D.	K.327, M.216, M.217, M.228, M.230 See also L.109
PURI, Kamal	K.328, K.347
QAYYUM, M.F.	K.329
QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS	M.199, M.243, M.326A
QUIRK, Charles Randolph Quirk, Baron	G.44, M.25
QURAISHI, [?]	See K.329

**Index of correspondents**

RAHMAN, Matiur	M.257 See also M.252
RAJAONARIVELO, O.A.	K.330
RAMACHANDRAN, A.	See K.572
RAMKISSOON, Harold	L.74
RAMSAY, J.A.	L.21
RAND, David	J.44, J.45
RANGER, Sir Douglas	G.15
RAO, Balakrishna	M.209
RAWLINS, Anthony David	M.185, M.211, M.243, M.249, M.250
RAYMOND, David	K.330
REES, Martin, Baron	M.162
REID, Robert O.	K.330
RETHORST, Scott	L.30
RIBNER, Herbert S.	H.94, K.544
RICHARDS, Sir Rex Edward	M.141
RICHMOND, Sir Mark Henry	M.148
RIJSBERGEN, C.J. VAN	K.674
RILEY, Norman	H.43
RILEY, P.A.	M.266-M.268
ROACH, Margot R.	B.59
ROBERTS, Sir Derek Harry	See G.57
ROBERTSON, H.H.	K.35
ROGERS, Claude Ambrose	K.586, M.74
ROGERSON, Alan T.	H.182, H.183, K.161, K.162, M.326A
ROITT, I.M.	G.48
ROMANENKO, E.V.	M.200, M.201
ROOKE, Sir Denis Eric	M.34

**Index of correspondents**

ROSEN, Dennis	M.263
ROSENBERG, Victor	K.675
ROSENBROCK, H.H.	M.322
ROSENFELD, Charles L.	K.220, K.303, K.449 See also K.219
ROTHSCHILD, (Nathaniel Mayer) Victor, 3rd Baron	D.4, D.5
ROY, Maurice	K.518
ROYAL ACADEMY OF ENGINEERING	M.77, M.100, M.239 See also K.388
ROYAL AERONAUTICAL SOCIETY	G.44, L.1, L.2-L.4
ROYAL SOCIETY	D.2, D.4, E.1-E.5, H.43, H.44, H.79, H.81, K.29, K.43, K.61, K.103, K.126-K.129, K.262, K.508, K.509, K.511, K.524, K.564, K.590, K.610- K.667, L.6, L.49, L.50, L.54, L.60, L.62, L.64, M.102, M.156, M.157, M.195, M.196, M.227, M.231, M.233, M.240, M.256, M.264, M.265, M.267, M.270 See also K.201, K.224
ROYAL SOCIETY CLUB	M.276
ROYAL STATISTICAL SOCIETY	K.30
RUBBER RESEARCH INSTITUTE OF MALAYSIA	K.412
RUBBIA, Carlo	M.48
RUFER, Libor	M.63
RUSSELL, Conrad Sebastian Robert Russell, 5th Earl	G.50
RUSSIAN ACADEMY OF SCIENCES	M.254
RYLAND, Sir (Albert) William (Cecil)	K.603-K.606, K.609 See also K.608
RYLOV, Yuri	M.272, M.273
SACHDEV, P.L.	M.201, M.206 See also M.205
SADLER, Peter M.	M.261



**Index of correspondents**

SAJJADI, Shahrada	M.246
SALAM, Abdus	K.259
SALTER, Stephen H.	M.218
SARKAR, Sutanu	M.254, M.255
SATO, Hiroshi	L.67
SAUNDERS, Sir Owen Alfred	E.13
SAWYER, W.W.	M.214, M.219
SAXENA, V.P.	M.231
SCHAEFER, Glen W.	M.175
SCHIEHLEN, Werner	K.331, K.478, K.483, K.484, K.486, K.487, K.488, K.491-K.493, K.496, K.498-K.500, K.502, K.503, K.505, K.507, K.509-K.511, K.514-K.516, K.529, K.537, K.538, K.540, K.549- K.553, K.557, K.583, L.74 See also K.481, K.517, L.108
SCHLAPP, Robert	K.665
SCHOOL MATHEMATICS PROJECT	M.326A
SCHROTER, R.C.	M.40
SCIENCE RESEARCH COUNCIL / SCIENCE AND ENGINEERING RESEARCH COUNCIL	G.40, K.668-K.685
SCORER, R.S.	D.6, K.27, K.32, K.35
SCOTT, Joseph W.	G.39
SEANG, Hak-Joong	K.331
SEATON, Michael John	D.6
SEVERTZOV, A.N.	L.32
SHAPIRO, Ascher H.	J.78
SHAPIRO, Lloyd	K.331
SHAW, Edgar A.G.	K.544
SHAW, Steven W.	L.69
SHEN, Yuan	L.60, L.62, L.64

# Index of correspondents

SHEPHERDSON, J.C.	K.22
SHERMAN, W.G.	K.28, K.29, K.37
SHUARD, Hilary B.	K.586
SHUKLA, J.B.	K.575, M.274
SILVER, Leon T.	K.302
SILVERLEAF, Alec	K.98
SILVERMAN, A. Paul	G.56
SIMPSON, Joanne	K.331 See also K.339
SINCLAIR, Hugh Macdonald	M.146
SINGER, Josef	H.81
SINGH, Mahendra P.	K.3, K.6-K.9, K.12, K.57, K.58, K.331, K.357, K.492, K.546, K.571, K.573-K.579, K.581, K.582, M.228 See also K.569, K.572
SINGLER, Timothy J.	M.266
SINHA, D.K.	K.209, L.81 See also K.355
SKALAK, Richard	M.256 See also M.255
SLEEMAN, Brian D.	L.78, M.185
SLEIGH, Michael A.	B.77, B.115
SMITH, Charles George Percy Smith, Baron DELACOURT-	K.603
SMITH, David G.	M.242
SMITH, Frank Thomas	H.51, H.195A, K.549-K.551, K.553, K.611, K.616, M.205, M.231
SMITH, J.H.B.	K.32
SMITH, Roger K.	K.332
SMITH, Ronald	M.243
SNEDDON, Ian Naismith	M.92
SOCIETY FOR EARTHQUAKE AND CIVIL ENGINEERING DYNAMICS	M.245

### Index of correspondents

SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS	H.84
SPEDDING, G.R.	H.123, M.182, M.211, M.229
SPENCE, David A.	G.46 See also G.47
SPENCER, Anthony James Merrill	See J.85
SRIVASTAVA, R.S.	M.241, M.246, M.251, M.254, M.264
STEELE, Charles R.	M.181 See also J.61
STEELE, John H.	K.97
STEBBENS, W.E.	F.25
STEINBERG, Hannah	J.49
STEPHENSON, Basil	L.2
STETTER, Hans J.	L.66
STINTON, Darrol	M.184
STOCKER, Peter M.	K.21
STOLTMAN, Joseph P.	K.209, K.395 See also K.387, K.392
STONE, Howard A.	M.248
STONE, Joan	K.27
STONE, Marshall H.	K.131
STRATFORD, Alan H.	L.2
STUART, John Trevor	G.42, H.81, H.195A, K.45, K.484, K.506, K.509, K.510, K.550, M.231 See also K.557
STURTEVANT, Brad	M.92
SUDO, K.	K.356, K.362, K.382, K.388, K.399, K.406, K.407, K.412, K.440, K.441, M.227 See also K.421, K.445
SUTHERLAND, Louis C.	See H.93
SUTYRIN, Georgi G.	K.332

### Index of correspondents

SWALE, Erica	B.63
SWANI, N.M.	K.12, K.569, K.571 See also K.572, K.582
SYNGE, John Lighton	K.665
TAGG, E. Donovan	K.94
TAKAKI, Ryuji	B.75, B.76
TANI, Itiro	K.541 See also L.17
TATSUMI, Tomomasa	K.559, M.209
TAYLOR, Charles A.	K.138, K.161, K.162
TAYLOR, Sir Geoffrey Ingram	K.34-K.36
TAYLOR, John G.	L.47
TAYLOR, Rodney EATOCK	M.71
TEODORESCU, Dan	M..323
TEMPLE, George	K.14, K.29 See also M.107, K.28
<i>THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS</i>	H.96, M.271
THIRD WORLD ACADEMY OF SCIENCES	K.484, K.620
THOMAS, C.J. Hamshaw	L.2
THOMAS, Neale	M.245, M.264, M.277
THOMPSON, Sir Harold Warris	E.1
THOMPSON, J. Michael T.	K.545
THORNEYCROFT, GILES & ASSOCIATES	M.90, M.137, M.171
THWAITES, Bryan	K.30, K.33, K.38, K.39
TIDMARSH, Elizabeth	K.263
TILTON, Homer B.	M.271
<i>TIMES HIGHER EDUCATIONAL SUPPLEMENT</i>	K.42
TITLI, André	M.222, M.226



# Index of correspondents

TOBIAS, S.A.	K.679
TOCHER, K.D.	K.26
TOKATY, Grig A.	L.10
TONISSON, William	K.104
TRINITY COLLEGE CAMBRIDGE	A.54, D.3
TRITTON, David J.	L.50
TUCKER, G. Brian	K.215, K.333 See also K.339
TURCOTTE, Donald L.	K.536, M.227 See also K.248, K.395, K.457
TURNER, J. Stewart	K.105
UNITED KINGDOM ATOMIC ENERGY AUTHORITY	
ATOMIC WEAPONS RESEARCH ESTABLISHMENT	D.7
CULHAM LABORATORY REVIEW PANEL	K.686-K.699
UNITED KINGDOM AUTOMATION COUNCIL	K.38
UNITED KINGDOM COORDINATION COMMITTEE FOR INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION (IDNDR)	K.700-K.705
UNITED NATIONS	
IDNDR SECRETARIAT	K.356, K.362, K.374, K.382, K.385, K.387, K.388, K.399, K.400, K.403- K.407, K.411-K.413, K.422, K.440, K.441, K.449
UNESCO	K.123, K.125, K.134, K.138, K.160, K.216, K.242, K.413 See also K.421
UNIDO	K.406, K.408-K.410
UNIVERSITÉ SCIENTIFIQUE, TECHNOLOGIQUE ET MEDICALE DE GRENOBLE	K.706-K.713
UNIVERSITY COLLEGE LONDON	See Section G
CHAMBER MUSIC SOCIETY	M.49, M.60
CHEMICAL AND PHYSICAL SOCIETY	M.51

# Index of correspondents

CRABTREE DINNER	M.62
DE MORGAN SOCIETY	M.65
MUSIC SOCIETY	M.160
NATURAL SCIENCE CLUB	M.163
UNION	M.60
UNIVERSITY OF CAMBRIDGE	
FACULTY BOARD OF MATHEMATICS	M.75
UNIVERSITY OF KENT AT CANTERBURY	
INSTITUTE FOR BIOTECHNOLOGICAL STUDIES	M.114
INTERNATIONAL INSTITUTE OF BIOTECHNOLOGY	M.114
UNIVERSITY OF LONDON	
BEDFORD COLLEGE	B.23
BIRKBECK COLLEGE	B.28
INTERNATIONAL HALL	M.114
UNIVERSITY COLLEGE	See UNIVERSITY COLLEGE LONDON
UNIVERSITY OF MANCHESTER	M.148
UNIVERSITY OF MANITOBA	M.148
UNIVERSITY OF OXFORD	
ENVIRONMENTAL CHANGE UNIT	K.212
UNIVERSITY OF SUSSEX	
SCIENCE POLICY RESEARCH UNIT	M.59
URSELL, Fritz Joseph	H.124 See also G.47
UYEDA, Seiya	K.387, K.388, K.391, K.394, K.395, K.398, K.399 See also K.386, K.390, K.392, K.440
VAINSHTEIN, Peter	M.229, M.270

**Index of correspondents**

VALLURI, S.R.	K.579
VAN BLADEL, J.	K.251 See also K.265
VAN DYKE, Milton	M.189, M.211
VAROTSOS, P.	K.391, K.395, M.264, M.265, M.277 See also K.390
VERSTAPPEN, Herman Th.	K.210, K.215, K.217, K.221, K.262, K.334, K.385, K.388, K.390, K.436, K.440, K.446, K.448-K.450, M.243, M.249 See also K.187, K.203, K.219, K.386, K.387, K.392, K.395, K.399, K.447, M.252, M.254, M.262, M.267
VICK, Sir (Francis) Arthur	K.686-K.689
VICKERY, Barry	See K.407
VILLEVIELLE, Adelin	K.334, K.382, K.387, K.394 See also K.392, K.395, K.440
VOISIN, Bruno	M.199, M.201
WAKELY, P.G.	K.26, K.55, K.56
WALLIS, Graham B.	B.123
WANG, Ren	L.64
WARDLE, C.S.	See M.178
WARNER, Anne Elizabeth	K.610
WASSERMANN, Gerhard D.	K.674
WATANABE, Eiichi	M.246, M.248
WATES FOUNDATION	E.13, E.14
WAY, Sir Richard ('Sam')	D.4, D.7 See also D.5, D.6
WEAVER, Warren	M.326
WEIHS, Danny	A.45
WEINGARTNER, Paul	M.206
WEIZMANN INSTITUTE FOUNDATION	M.247

# Index of correspondents

WELLCOME TRUST	E.13, E.14
WENDT, John F.	M.227, M.229, M.235, M.236
WESSEL, Walter	G.63
WESTCOTT, John Hugh	L.50
WHITESIDE, Derek Thomas	K.667, M.325, M.326
WHITHAM, Gerald Beresford	H.20 See also G.47
WHITTLE, Peter	M.324
WHYBROW, D.A.	L.2
WICKHAM, Gerry R.	J.66
WIJNGAARDEN, Leen van	K.175, K.335, K.481-K.484, K.487, K.491, K.510, K.512, K.513, K.529, K.534, K.540, K.541, K.550, K.559, K.560, L.99, M.225, M.228, M.240 See also K.517, M.239, M.242
WILKIE, Douglas Robert	K.616
WILKINSON, James Hardy	G.46 See also K.42
WILKINSON, K.G.	L.1
WILKS, Graham	L.76
WILLIAMS, J.E. FFOWCS- ('Shon')	H.195A See also D.6, G.47, K.544
WILLIAMS, Trevor Illyd	K.673, K.675
WILLIAMSON, David Theodore Nelson	K.648, K.658
WILLIS, John Raymond	K.551, M.196, M.234, M.239, M.267, M.269, M.271
WILLMOTT, A.	M.160
WILSON, Robert	K.177
WILSON, Simon	M.21
WOLFSON FOUNDATION	E.13, E.14, M.259, M.261
WOLPERT, Lewis	See M.203, M.238



# Index of correspondents

WONG, Roderick	M.217, M.219
WOOD, Sir Frank	K.603
WOODRUFF, Sir Michael Francis Addison	H.71
WOODS, L.C.	M.264
WOOLFSON, M.B. de	L.4
THE WORLD BANK	K.254, K.301
WORLD COUNCIL FOR BIOMECHANICS	M.248, M.261, M.271
WORLD FEDERATION OF ENGINEERING ORGANIZATIONS	K.253, K.290, K.301, K.410
WORLD METEOROLOGICAL ORGANIZATION	K.279, K.310, K.320, K.330, K.347, K.412, K.413, K.415, M.203, M.207, M.239, M.242, M.243, M.253, M.263 See also K.221, K.224, M.209
WORLD SCIENTIFIC PUBLISHING CO PTE LTD	M.199, M.218, M.226, M.272
WRIGHT, A.	M.188
WU, G.X.	M.203, M.269-M.271
WU, J.Z.	See M.194
WU, Theodore Y.	L.23-L.27, L.30-L.33, L.45
WYSS, Max	M.212
YAMAGATA, Toshio	K.336
YAMASAKI, Masanori	K.305, K.336
YEH, Harry	M.185
YIH, Chia-Sun	M.239
YOUNG, Alec David	H.195A, M.62
ZAKHARENKO, Michael N.	M.259
ZEEMAN, Sir (Erik) Christopher	K.33
ZENG, Qing-cun	K.337, K.347
ZHANG, H.	M.248, M.249, M.255, M.262

**Index of correspondents**

ZHANG, Zhaoshun	L.60, L.61, L.64
ZHENG, Zhemin	K.279, K.282, K.284, K.303, K.304- K.306, K.308, K.309, K.320, K.337, K.338, K.347, K.348, L.61 See also K.340-K.342, K.387, K.452, L.64
ZIEGLER, Franz	K.395, K.561-K.563, L.66
ZIENKIEWICZ, Olgierd Cecil	K.473
ZWEIG, George	M.180