

Catalogue of the papers and correspondence of

Stanley Keith Runcorn FRS

(1922-1995)

VOLUME II

Section G: Societies and organisations

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G.1 ACADEMIA EUROPAEA 1989

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G.2-G.6 AMERICAN GEOPHYSICAL UNION 1964-1985

Miscellaneous correspondence.

G.2 Correspondence, chiefly *re* AGU events, 1964-1968.

G.3 Correspondence, 1969-1971.

G.4 Correspondence, chiefly *re* operation of Bucher Medal Subcommittee and back copies of journal, 1976-1980.

G.5 Correspondence and papers, 1982-1983.

Includes papers of AGU meeting on 'Geophysical and Geochemical Consequences of Nuclear Explosions'.

G.6 Correspondence, 1984-1985.

**G.7-G.11 BRITISH ASSOCIATION FOR THE ADVANCEMENT OF 1973-1975
SCIENCE**

Runcorn was a member of the British Association Study Group on Scientific Research in British Institutions of Higher Education

G.7 Correspondence *re* establishment of the Study Group, and early papers, March - June 1973.

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- G.8 Papers for Study Group Weekend, Cambridge, 13 - 14 July 1973, circulated before the meeting.
- G.9 Draft findings and reports, September - October 1973.
Includes three drafts with extensive manuscript correction and annotation.
- G.10 Correspondence and papers, October - December 1973.
Includes printed copy of the Report, December 1973.
- G.11 Correspondence arising, 1974-1975.

G.12-G.63 COSPAR (COMMITTEE ON SPACE RESEARCH) 1971-1988

COSPAR was established by the International Council of Scientific Unions in 1958 to continue programmes of rocket and satellite research undertaken during the International Geophysical Year 1957-1958. It was an interdisciplinary organisation concerned with international progress of all kinds of fundamental research carried out with rockets or rocket propelled vehicles.

Runcorn was nominated as an International Union of Geodesy and Geophysics representative on COSPAR Working Group 7 'Studies of the Moon and Planets' in 1971.

G.12-G.53 General correspondence and papers

G.54-G.63 COSPAR conferences

G.12-G.53 General correspondence and papers

Most of this material relates to Runcorn's involvement with three specific COSPAR projects: Working Group 7 on Studies of the Moon and Planets (WG7); the International Solar System Decade (ISSD), later the International Solar System Programme (ISSP); and the Co-ordinating Committee for the Moon and Planets (CCMP).

The Working Group on Studies of the Moon was Runcorn's first commitment to COSPAR, beginning in 1971.

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The International Solar System Decade was established in the mid-1970s to further investigation of all aspects of the Solar System through establishing 'mechanisms to bring scientists from many nations into the mainstream of solar system research'. It was launched as the International Solar System Programme. In 1979 it was suggested that ISSP be placed under the International Council of Scientific Unions as an independent panel (ICSU Solar System Panel).

The Co-ordinating Committee for the Moon and Planets (CCMP) was established in 1975, replaced the Inter-Union Commission for Studies of the Moon (see G.279-G.294). The CCMP had the following remit:

'a) to facilitate the co-ordination of the interdisciplinary aspects of lunar and planetary research;

b) to facilitate exchange of information about existing and future lunar and planetary research programs;

c) to stimulate compilation and distribution of lunar and planetary data;

d) to co-ordinate proposals for the organisation of international scientific meetings dealing with some aspects of lunar and/or planetary research'.

Runcorn became chairman of CCMP on its establishment. In 1979 the future of CCMP was under discussion, some suggested it be wound up, others that it be incorporated within ISSP. In the mid-1980s CCMP was placed under COSPAR as a Task Group, Runcorn was chairman.

The British National Committee on Space Research oversaw the UK contribution to COSPAR and there is material relating to this at G.499-G.503.

The material relating to all three projects is closely interconnected, a single letter can refer to more than one and there was considerable cross-membership. It has therefore been placed in a single sequence.

G.12

Correspondence and papers, January - May 1971.

Subjects include membership of WG 7 and the 14th COSPAR Plenary Meeting, Seattle, Washington, USA, 17 June - 2 July 1971.

G.13

List of papers presented at the 14th COSPAR Plenary Meeting, Seattle, Washington, USA, 17 June - 2 July 1971.

See G.54.

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- G.14 Correspondence, chiefly with G.H. Pettengill, Organising Committee Chairman of the 15th COSPAR Plenary Meeting, *re* arrangements for the Meeting and business meetings held during its proceedings, March - December 1971.
- See also G.55, G.56.
- G.15 Correspondence *re* 15th COSPAR Plenary Meeting, January - March 1972.
- See also G.55, G.56.
- G.16 Papers *re* work of WG 7, presented during Plenary Meeting, 1971-1972.
- G.17 Other business papers presented during 15th COSPAR Plenary Meeting, 1971-1972.
- G.18 Correspondence and papers arising, May - October 1972.
- Includes Runcorn's report on the WG 7 meeting for the International Union of Geodesy and Geophysics, 25 May 1972.
- G.19 Correspondence and papers, January - July 1974.
- Includes the proposal of W.H. Pickering to WG 7 for an 'International Solar System Exploration Decade', 28 June 1974.
- G.20 Correspondence and papers, chiefly *re* ISSD proposal, August 1974.
- G.21 Correspondence and papers, October, December 1974.
- G.22 Correspondence and papers, chiefly *re* ISSD, January - July 1975.
- G.23 Correspondence and papers, August - October 1975.
- Includes 'Highlights and trends in environmental sciences' by C. de Jager, reviewing Earth and Space sciences in the foregoing year.

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- G.24 Correspondence and papers, November - December 1975.
Includes 'First draft of a report to COSPAR for the creation of an international solar system decade program', November 1975.
- G.25 Correspondence and papers, January 1976.
Includes 'Second draft of a report to COSPAR for the creation of an international solar system decade program', January 1976.
- G.26 Correspondence and papers, February - March 1976.
Includes responses to ISSD proposal and 'Descriptive summary of an international solar system decade'.
- G.27 Correspondence and papers, April - June 1976.
Includes 'The International Solar System Program. A proposal to COSPAR', 16 June 1976. This was accepted by ICSU.
- G.28 Correspondence and papers, July - September 1976.
Includes 'The Composition and Resources of the Moon and other Bodies of the Solar System', report by Runcorn for COSPAR, circulated September 1976.
- G.29 Correspondence, October - December 1976.
- G.30 Correspondence and papers, January - June 1977.
Includes Runcorn's manuscript notes on meeting of ISSP, Amsterdam, 16 May 1977.
- G.31 Correspondence and papers, July - October 1977.
Includes minutes of meeting of CCMP, London, 22 July 1977.

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- G.32 Correspondence and papers, November - December 1977.
Includes papers *re* meeting of ISSP Officers, Paris, France, January 1978 and COSPAR Meeting, Innsbruck, Austria, May - June 1978.
- G.33 Correspondence and papers, January - March 1978.
Includes correspondence *re* future of CCMP, meeting of ISSP Officers Utrecht, Netherlands, 28 February - 1 March 1978, and COSPAR Meeting.
- G.34 Correspondence and papers, chiefly *re* COSPAR Meeting and composition of ISSP, April - July 1978.
- G.35 Correspondence and papers, chiefly *re* composition of ISSP, August 1978.
- G.36 Correspondence and papers, September 1978.
Includes circulated minutes of meetings of ISSP Steering Committee, June 1978, and CCMP, July 1978.
- G.37 Correspondence, chiefly *re* meetings of the ISSP Steering Committee, October - November 1978.
- G.38 Correspondence and papers, December 1978.
Includes ISSP report 'Workshops for Educators in Planetary Sciences', December 1978.
- G.39 Correspondence and papers, chiefly *re* meetings, January - March 1979.
- G.40 Correspondence and papers, chiefly *re* ISSP and CCMP meetings, April - May 1979.
- G.41 Correspondence, chiefly *re* future of ISSP outside COSPAR, June - October 1979.

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- G.42 Correspondence and papers, November - December 1979.
- G.43 Correspondence, chiefly *re* arrangements for CCMP meeting, January - March 1980.
- G.44 Correspondence, April - October 1980.

Includes correspondence with Sir John Kendrew, General Secretary of ICSU, *re* future of ISSP and CCMP.
- G.45 Correspondence, 1981.

Includes letter from C. de Jager informing members that ISSP is to be dissolved, February 1981.
- G.46 Correspondence *re* CCMP meetings at COSPAR conference in Ottawa (May 1982) and International Astronomical Union in Patras (August 1982), January - June 1982.

Includes 'Remarks made by Professor S.K. Runcorn at the Plenary Session of COSPAR, Ottawa, May 1982', 2pp typescript.
- G.47 Correspondence and papers, July - December 1982.
- G.48 Correspondence, chiefly *re* CCMP presentation to the International Union of Geodesy and Geophysics, (August 1983), January - August 1983.
- G.49 Correspondence and papers, September - December 1983.
- G.50 Correspondence and papers, chiefly *re* future of CCMP, January - May 1984.

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- G.51 Correspondence and papers, June - September 1984.

Includes 'Presentation by Professor S.K. Runcorn to the Sub-Committee on Scientific Priorities on the Work of CCMP'.

This was given during the 25th Plenary Meeting of COSPAR, Graz, Austria, 25 June - 7 July 1984.
- G.52 Correspondence and papers, 1986.

Includes University of Newcastle contribution to UK COSPAR report.
- G.53 Correspondence and papers, 1987-1988.

Includes report of 40th meeting of COSPAR Bureau, June - July 1986.
- G.54-G.63 COSPAR Plenary Meetings 1971-1988**
- G.54 14th COSPAR Plenary Meeting, Seattle, Washington, USA, 17 June - 2 July 1971.

Runcorn gave a paper 'Geophysical Studies of the Lunar Interior' at the Open Meeting of WG 7.

Circulars, general information etc., 1970-1971.

See also G.13.
- G.55, G.56 15th COSPAR Plenary Meeting, Madrid, Spain, 10-24 May 1972.

Runcorn spoke 'On the implications of the shape of Mars'. He also attended business meetings during the Plenary Meeting (see G.14-G.18).
- G.55 Circulars and information, list of participants, brief correspondence *re* arrangements, 1971-1972.
- G.56 'On the implications of the shape of Mars', 7pp typescript.

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- G.57-G.59 19th COSPAR Plenary Meeting, Philadelphia, USA, 8-19 June 1976.
- Runcorn gave a paper 'Physical processes within the Moon'.
- During his visit to the USA, Runcorn visited colleagues at a number of research centres throughout the country, including the Phillips Petroleum Company, Gulf Research & Development Company, the Lawrence Livermore Laboratory, the Jet Propulsion Laboratory, and the University of California, Los Angeles, and most of the correspondence concerns these visits (see also H.323).
- Runcorn acted as a consultant at the Jet Propulsion Laboratory, where he was present on 19 June at the time of the landing on Mars by the US space probe Viking 1.
- G.57 Correspondence and papers *re* arrangements for COSPAR Meeting, January -August 1976.
- G.58 1p typescript abstract of Runcorn's contribution.
- G.59 Correspondence with colleagues at US research centres, 1976.
- G.60-G.63 27th COSPAR Plenary Meeting, Espo, Finland, 18-29 July 1988
- M.H. Carr and Runcorn co-organised the Symposium on Reappraisal of the Moon and Mars/Phobos/Deimos: preparation for renewed exploration' at which he gave a paper 'The physics of the Moon and Mars'. Runcorn also chaired Workshop II on Future Planetary Missions.
- G.60 Correspondence and papers *re* arrangements for COSPAR Plenary Meeting, 1986-1988.
- G.61 Correspondence and papers *re* arrangements for Symposium on Reappraisal of the Moon and Mars, 1986-1987.
- G.62 Correspondence and papers *re* arrangements for Symposium on Reappraisal of the Moon and Mars and Workshop II, 1988.
- G.63 Abstracts submitted for Symposium, 1988.

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G.64-G.67 **DEPARTMENT OF ENERGY: ENERGY TECHNOLOGY** **1979-1980**
SUPPORT UNIT

The distinguished geophysicist Thomas Gold of Cornell University argued that the conventional theory of the biogenic origin of hydrocarbon fuels (coal, gas and oil) was mistaken, and claimed that there were large quantities of abiogenic methane available to be tapped as a fuel resource.

The material is related to the Energy Technology Support Unit (ETSU)'s evaluation of Gold's theories.

In April 1980 Gold visited the Atomic Energy Research Establishment, Harwell in connection with his birthday celebrations. He gave a lecture 'Primordial methane - energy source for the future' and participated in an open discussion following the meeting.

G.64 February - March 1979.

Includes letter to Runcorn from Frank Press, Director of the Office of Science and Technology Policy (Executive Office of the US President).

G.65 January 1980.

G.66 February 1980.

Papers sent to Runcorn, including 'The Etsu Assessment of Abiogenic Methane'.

G.67 March - May 1980.

Correspondence and papers, chiefly *re* Gold's visit to Harwell, 9 April 1980.

G.68-G.76 **EUROPEAN GEOPHYSICAL SOCIETY** **1971-1988**

The EGS was established in 1972, with Runcorn an important figure in its establishment. He was pressed to become its first President but declined feeling this would give the new body too 'Anglo-Saxon' a slant.

Societies and organisations

The material 1971-1972 chiefly relates to the establishment of the EGS, its relationship with the European Earth and Planetary Physics Colloquium and its first meetings. Later material chiefly concerns subjects for discussion and arrangements for conferences of the Society.

Runcorn was elected an Honorary Member in 1977.

- G.68 Correspondence *re* European Earth and Planetary Physics Colloquium and the EGS, June - October 1971.
- G.69 Correspondence, November - December 1971.
- G.70 Correspondence and papers, 1972.
Includes draft statement of the EGS, January 1972.
- G.71 Correspondence and papers, 1976-1977.
- G.72 Correspondence and papers, 1978.
- G.73 Correspondence and papers, 1979.
- G.74 Correspondence and papers, 1980.
Includes draft EGS Constitution and suggested amendments and correspondence *re* possible research journal for the Society.
- G.75 Correspondence and papers, 1981.
Includes examination of relationship with European Union of Geosciences.
- G.76 Correspondence and papers, 1985-1988.

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|------------------|---|------------------|
| G.78-G.93 | Workshop on Planetology, Strasbourg, France,
15-19 September 1980 | 1978-1981 |
| | <p>The material is chiefly correspondence and papers about the possibilities for ESF interest in space research, and arrangements for the workshop including subjects to be covered and possible speakers.</p> | |
| G.78 | November 1978 - January 1979. | |
| G.79 | February - March 1979. | |
| | <p>Includes draft and final versions of letter to the Space Science Committee by Runcorn and three others, outlining the current situation in European planetary science and how the ESF could assist in its furtherance.</p> | |
| G.80 | April - May 1979. | |
| | <p>Includes draft programme of the workshop and list of possible participants.</p> | |
| G.81 | June - July 1979. | |
| G.82 | August - October 1979. | |
| | <p>Chiefly <i>re</i> planning meeting for workshop, Utrecht, The Netherlands, October 1979.</p> <p>Following this meeting the ESF approved the workshop.</p> | |
| G.83 | December 1979 - January 1980. | |
| G.84 | February 1980. | |
| | <p>Includes drafts of the announcement of and programme for the workshop.</p> | |
| G.85 | March - May 1980. | |
| | <p>Includes preliminary programme and other information.</p> | |

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- G.86 June 1980.
Chiefly correspondence with prospective participants.
- G.87 July - September 1980.
- G.88 Workshop programme, list of participants etc. September 1980.
- G.89-G.91 Workshop working papers. September 1980.
3 folders.
- G.92 October - December 1980.
Correspondence arising from the workshop.
- G.93 1981.
Correspondence *re* recommendations of the workshop. Includes incomplete version (sections 1-4) of the workshop report.
- G.94-G.107 Space Science Board/Space Science Committee 1982-1984
 Joint Working Group on Planetary Exploration**
- This working group, of representatives of the US National Academy of Sciences Space Science Board (SSB) and the ESF Space Science Committee (SSC), was established in June 1982 to identify likely areas of co-operation between the US and Europe in planetary exploration.
- Runcorn was a European member of the Working Group. Most of the material relates to arrangements of meetings of the Working Party and preparation of the final report. The publication of the report was delayed until 1986 (see G.110).
- G.94 June - October 1982.
Includes invitation to serve, and papers for first meetings of the Working Group.

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- G.95 November - December 1982.
- G.96 January - February 1983.
Chiefly arrangements for Working Group meeting at the Royal Society, London, 22-23 February 1983.
- G.97 March - May 1983.
Includes draft 'Recommendations for the future level and character of NASA-ESA Cooperation', 20 May 1983.
- G.98 June - July 1983.
- G.99 August 1983.
Includes 'Final report of the Outer Planets Study Team' of the Working Group, August 1983.
- G.100 September 1983.
Arrangements for Working Group meeting at Ringberg, West Germany, 14-16 September 1983.
This meeting was to draft a Final Report.
- G.101 Outline of final report, 9 September 1983.
- G.102 Drafts of contributions to report by Runcorn and H. Masursky, September 1983.
- G.103 October - November 1983.
Chiefly *re* preparation of the Working Group's final report.

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- G.104 December 1983.
- Chiefly *re* preparation of the final report and arrangements for a meeting at the Royal Society at which it would be presented.
- Includes Runcorn's manuscript notes for drafting a section of the report.
- G.105 January - March 1984.
- G.106 'U.S. - European Cooperation in the Exploration of the Planetary System', draft of Working Group final report, April 1984.
- G.107 April - June 1984.
- Chiefly *re* meeting at the Royal Society to discuss the report, 17 May 1984. Includes report by W.H. McCrea.
- G.108, G.109 Cassini Study Team Meeting, Imperial College, London, 1984**
10-12 December 1984.
- The Cassini project was for an ESA/NASA Saturn Orbiter and Titan Probe. The study team invited additional European input at a meeting in London in December 1984.
- G.108 Correspondence and papers *re* meeting, October - November 1984.
- G.109 Papers for meeting, December 1984.
- G.110, G.111 Later material 1984-1987**
- G.110 Correspondence, chiefly *re* Runcorn's concern at the non-publication of the report of the Joint Working Group on Planetary Exploration, 1984-1986.
- G.111 Correspondence, 1987.

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G.112-G.153 EUROPEAN SPACE AGENCY 1978-1988

The material covers Runcorn's involvement with the European Space Agency (ESA) from 1978. It chiefly relates to Runcorn's contributions to formulating research proposals to put to ESA in response to calls for mission proposals.

- G.112-G.125 General correspondence and papers
- G.126-G.134 Polar Orbiting Lunar Observatory
- G.135-G.144 Kepler Mission
- G.145-G.153 Mercury Orbiter Mission

G.112-G.125 General correspondence and papers 1980-1988

- G.112 Information circulars, 1980.
- G.113 Information circulars, March - July 1981.
- G.114 Correspondence, August - October 1981.
- G.115 Information circulars, 1982.
- G.116 Correspondence and papers, 1983.
- G.117 Reports of ESA Topical Teams on Planetary Science, Space Plasma Physics and Solar and Heliospheric Physics, May 1984.
- G.118 Information circulars, 1984.
- G.119 Correspondence and papers (chiefly circulars), 1985.

Societies and organisations

- G.120 Correspondence and papers, chiefly *re* meeting of Solar System Working Group, Paris, France, 18 March 1986, February - March 1986.
- G.121 Correspondence and papers, including that arising from March meeting of Solar System Working Group, April - May 1986.
- G.122 Correspondence and papers, including references to Mercury Orbiter proposal (see G.145-G.153 below), June - August 1986.
- G.123 Correspondence and papers, chiefly *re* 'Vesta' project to study Mars, 1987.
- G.124 Correspondence and papers, 1988.
- G.125 ESA Space Science Newsletters 1 (Jan 1985), 5 (June 1986), 7 (April 1987), 8 (June 1987), 9 (Dec 1987).

G.126-G.134

Polar Orbiting Lunar Observatory

1978-1983

The idea of a Lunar Polar Orbiter as a joint NASA/ESA project had been put forward in the early 1970s (see G.321-G.333). Plans then had fallen through but the project was subsequently revived as the Polar Orbiting Lunar Observatory (POLO). This was a joint ESA/NASA project initiated in 1979. Work on Phase A was delayed until 1981, by which time budget cuts at NASA put the future of the project in doubt. Japanese collaboration was considered as were possible ways to reduce costs. An offer of West German government funding of a lunar relay satellite (in conjunction with the Max Planck Institut and AMSAT) offered a way to reduce costs. Arrangements did not come to fruition and POLO was effectively abandoned in 1983.

Runcorn served as a Consultant to this project from 1978. The material includes arrangements for meetings of consultants, technical discussions and correspondence *re* the future of the programme following NASA's withdrawal from it.

- G.126 Consultancy agreements and technical information, 1978, 1979.
- G.127 Correspondence and papers, January - April 1980.

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- G.128 Correspondence, May - August 1980.
- G.129 Correspondence and papers *re* POLO Consultants' meeting, Amsterdam, The Netherlands, 17 February 1981. February 1981.
- G.130 Correspondence, March - June 1981.
- G.131 Correspondence and papers, chiefly *re* revisions to POLO project, October - December 1981.
- G.132 Correspondence and papers *re* future of POLO, January - February 1982.
- G.133 Correspondence and papers *re* future of POLO, March - December 1982.
- G.134 Correspondence and papers *re* attempts to revitalise POLO, 1983.
- G.135-G.144 Kepler Mission 1980-1984**
- This was a proposal for a deep space geophysical orbiter to study the atmosphere, ionosphere, magnetic field etc of the planet Mars.
- Runcorn was invited to the assessment meetings on the Kepler project in ESTEC (European Space Research and Technology Centre), The Netherlands in early 1981. He was appointed a Scientific Consultant to the project in March 1981.
- G.135 Proposal, October 1980.
- G.136 Correspondence and papers *re* assessment meetings on the Kepler proposal, ESTEC, The Netherlands, February-March 1981.
- Also includes Runcorn's contract as Consultant for March - June.
- G.137 Kepler Assessment Study and related papers, sent to Runcorn, April 1981.

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- G.138 Correspondence and papers, chiefly *re* presentation of Assessment Study results, ESTEC, The Netherlands, 10 June 1981. April - June 1981.
Following this meeting ESA agreed that Phase A studies could be initiated.
- G.139 Correspondence and papers, July-October 1981.
Includes consultancy contract for September - December.
- G.140 Correspondence and papers, chiefly meetings *re* Kepler planning, March and April 1982. January - April 1982.
- G.141 Papers *re* mid-term presentation on Kepler Phase A, July 1982.
- G.142 Correspondence and papers chiefly *re* preparations for presentation on the Kepler project, September - December 1982.
Includes 2pp typescript drafts by Runcorn on 'Mars dipole field' and 'Magnetic behaviour of the Mars interior'.
As Phase A was completed the Kepler project had to compete with a number of other prospective projects for ESA approval.
- G.143 Correspondence and papers *re* presentation on Kepler project, ESTEC, The Netherlands, 21 January 1983. January 1983.
- G.144 Correspondence and papers *re* future of Kepler, March 1983 - July 1984.
- G.145-G.153 Mercury Orbiter Mission 1983-1986**
- This was a proposal for a single spaceprobe to be sent to orbit the planet Mercury for geological, geophysical, atmospheric and other surveys.
The bulk of the material is papers on the feasibility and possible experiments of a Mercury probe.
- G.145 'Mission concept' for Mercury Orbiter, November 1983.

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- G.146 Correspondence and papers *re* meeting on the Mercury Orbiter proposal, Oberpfaffenhofen, West Germany, 11 October 1985. September - October 1985.
- Includes Runcorn's manuscript notes.
- G.147 'Material on the outcome of the first session [...] on a Mercury Polar Orbiter Mission Proposal'. 14 October 1985.
- G.148, G.149 Photocopied manuscript and typescript draft on Mercury Orbiter, *ca* October 1985.
- 2 folders.
- G.150 Correspondence and papers arising from 11 October meeting, October 1985.
- G.151 Correspondence and papers *re* meetings on Mercury Orbiter proposal, Oberpfaffenhofen, West Germany, 22 November and British National Committee for Space Research, Royal Society, London, 25 November 1985. November 1985.
- G.152 'Particle and field observations from a Mercury Orbiter Mission' by A.K. Richter and S.M.P. Mckenna-Lawlor, 21 November 1985.
- G.153 List of the 'New Mission Proposals' submitted to ESA, 28 January 1986.

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G.154-G.230 INTERNATIONAL ASTRONOMICAL UNION 1968-1987

The material is presented as follows:

- | | |
|-------------|---|
| G.154-G.164 | General correspondence and papers |
| G.165-G.172 | Commission 16: Physical Studies of Planets and Satellites |
| G.173-G.196 | Commission 17: The Moon |
| G.197-G.202 | Commission 19: Rotation of the Earth |
| G.203-G.230 | Planetary Nomenclature |

G.154-G.164 General correspondence and papers 1968-1987

- G.154-G.156 Contents of Runcorn's folder inscribed 'IAU Brighton August 70'.
Refers to IAU 14th General Assembly, Brighton, Sussex, 18-27 August 1970.
- G.154 Preliminary announcement and preliminary programme, 1968-1970.
- G.155 Miscellaneous correspondence *re* events taking place during the IAU General Assembly, March - May 1970.
- G.156 Typescript papers: 'Measurements of the polar variation' by N.P.J. O'Hara; 'Geophysics from precise measurement of the rotation of the Earth' by S.J. Peale, 1970.
- G.157-G.164 Contents of Runcorn's bundle labelled 'IAU General file'.
- G.157 Papers *re* 15th IAU General Assembly, Sydney, Australia, 21-30 August 1973. 1971.
See also H.198-H.208.

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- G.158 Papers, 1974, 1976.
- G.159 Correspondence and papers, chiefly *re* Runcorn's attendance at 17th IAU General Assembly, Canada, August 1979.
- G.160 Papers *re* work of IAU Working Group on Notation, 1979-1981.
- G.161 Papers *re* work of Special Study Group 2.32 (Lunar Laser Ranging), 1980.
- G.162 General correspondence and papers, 1980-1982.
- G.163 Correspondence and papers *re* IAU Colloquium no. 60, 'Uranus and the Outer Solar System', Bath, 14-16 April 1981. 1980.
Runcorn was on the scientific organising committee.
- G.164 General correspondence and papers, 1985, 1987.
- G.165-G.172 Commission 16: Physical Studies of Planets and Satellites 1968-1985**
- Runcorn was Vice-President of Commission 16 from 1970 to 1973.
- G.165 Correspondence and papers, 1968-1969.
Includes Runcorn's report on his department's work for the Commission, December 1968, and Commission newsletters 1-6.
- G.166 Correspondence and papers, January - June 1970.
Includes nomination of Runcorn as Vice-President of the Commission and Commission newsletters 7-9.

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- G.167 Correspondence and papers, July - October 1970.
Includes Commission newsletter 10.
- G.168 Correspondence and papers, 1971-1972.
Includes letter *re* nomination of Runcorn for Presidency of Commission 16 from August 1973.
In the event Runcorn became President of Commission 17 and C.H. Mayer was President of Commission 16.
- G.169 Correspondence and papers, 1973-1974.
- G.170 Correspondence and papers, 1975-1976.
- G.171 Papers, 1978-1979.
Papers 1978 are chiefly *re* proposed merger of Commissions 16 and 17. See also G.184.
- G.172 Correspondence and papers, 1982, 1985.
- G.173-G.196 Commission 17: The Moon 1969-1979**

Runcorn was President of this Commission for the period 1973-1976, in succession to A. Dolfuss. He was a member of Working Group 3, Lunar Geology and Geophysics 1969-1972.

The material relating to Working Group 2 (of which Runcorn was not a member) concerns the attempts to draft this Working Group's section of the Commission's three-year report for which Runcorn, as President, was responsible.

In 1979 Commission 17 was merged with Commission 16, continuing under the name Commission 16.

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The material is arranged as follows:

- | | | |
|-------------|---|-----------|
| G.173-G.184 | General Commission correspondence and papers | |
| G.185-G.188 | Working Group 3: Lunar Geology and Geophysics | |
| G.189-G.196 | Working Group 2: Physics, Chemistry and Geology of the Moon | |
| G.173-G.184 | General Commission correspondence and papers | 1970-1979 |
| | Contents of Runcorn's bundle labelled 'IAU Commission 17 on the Moon'. | |
| G.173 | Papers 1970. | |
| | Includes proceedings of Commission meetings during the 14th IAU General Assembly. | |
| G.174 | General correspondence and papers, 1971. | |
| G.175 | Correspondence and papers <i>re</i> IAU Special Symposium on The Moon, Newcastle upon Tyne, 22-26 March 1971. 1969-1971. | |
| | This was organised by Runcorn. | |
| G.176 | 'Lunar nomenclature. Documents (October 1971)'. Contents of Runcorn's folder so titled: typescript papers relating to IAU policy etc on lunar nomenclature. | |
| | See also the Task Group on Lunar Nomenclature, G.224-G.230. | |
| G.177 | Correspondence and papers, 1972. | |
| G.178 | Papers, 1973. | |
| | Includes report on Commission activities, November 1973. | |

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- G.179 Correspondence and papers, 1974.

Includes discussion on possible Commission activities and role of Working Groups.
- G.180 Correspondence and papers, 1975.

Includes correspondence *re* contribution of Working Group 2 to the Commission report for 1973-1976 (see G.189-G.196).
- G.181 Brochure on the work of the IAU Planetary Photographs Center, Meudon, France, sent to Runcorn December 1975.
- G.182 Correspondence and papers, January - March 1976.

Includes drafts of sections of the Commission 17 report.
- G.183 Correspondence and papers, June - December 1976.

Includes correspondence *re* Commission 17 resolutions for the IAU General Assembly.
- G.184 Correspondence and papers, 1977-1979.

Includes papers *re* proposed merger of Commission 17 with Commission 16. See also G.171.
- G.185-G.188 Working Group 3: Lunar Geology and Geophysics 1969-1973

This was chaired by G. Fielder.
- G.185 Correspondence and papers, 1969-1970.

Includes invitation to serve on the Working Group, October 1969, and correspondence *re* its activities.

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- G.186 Correspondence and papers *re* Working Group report, July, October 1972.
Chiefly drafts of sections of the report submitted by members of the Working Group.
- G.187 'Final basis for draft report for the period 1969-1972', November 1972.
- G.188 'Final basis for draft report for the period 1969-1972 (Revised)', January 1973.
- G.189-G.196 Working Group 2: Physics, Chemistry and Geology of the Moon 1975-1976

Contents of Runcorn's bundle labelled 'IAU Working Group 2 (Physics, Chemistry + Geology of the Moon, Dr J. O'Keefe)'.

This is material *re* the drafting of this Working Group's section of Commission 17's three-year report. As President of the Commission Runcorn was responsible for the compilation of its report.

Difficulties arose in relation to disagreements within the Working Group over the origin of lunar craters and over the prominence that the divergent views should have in the report. It was felt the views of the Chairman, J.A. O'Keefe, did not reflect the scientific consensus. The bulk of the material is copies of papers and correspondence expressing the views of members of the Working Group, forwarded to Runcorn by O'Keefe.
- G.189 Photocopied correspondence and papers, April - May 1975.
- G.190 Photocopied correspondence and papers, June - September 1975.
- G.191 Outline of draft report, *ca* September 1975.
- G.192 Correspondence and photocopied correspondence, October - November 1975.
- G.193 Redraft of report, December 1975.

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- G.194 Correspondence and photocopied correspondence, December 1975.
- G.195 Correspondence and photocopied correspondence, January - July 1976.
- G.196 Working Group 2 Report, *ca* June 1976.

This is largely a copy of the collected correspondence that passed between the principal parties April 1975 - May 1976.
- G.197-G.202 Commission 19: Rotation of the Earth 1976-1987**
- Runcorn was a member of this Commission.
- G.197 Circular letter with list of members, 1976.
- G.198 Correspondence, 1979-1981.
- G.199 'Draft Proposal for Project MERIT', Joint Working Group on the Determination of the Rotation of the Earth, August 1979.

This was produced by a joint working group of IAU Commissions 19 and 31.
- G.200 Correspondence and papers, 1982.

Chiefly *re* meetings of Commission 19 during 1982 IAU General Assembly.
- G.201 Papers, 1983-1986.

Includes papers for and arising from meetings of Commission 19 during 1985 IAU General Assembly.
- G.202 Papers, 1987.

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- G.203-G.230** **Planetary System Nomenclature** **1973-1987**
- The IAU became involved in nomenclature issues soon after its foundation in 1919. A number of informal rules were developed for naming features of the Moon. Its work was formalised in 1973 when the IAU established the Working Group for Planetary System Nomenclature with Task Groups set up for naming features on the Moon, Mars, Venus, Mercury and Outer Planets. In the 1980s a Task Group for Asteroid and Comet Features was established.
- Runcorn was a member of the Working Group (initially as President of Commission 17) and of its Task Group on Lunar Nomenclature.
- G.203-G.223 Working Group for Planetary System Nomenclature
- G.224-G.230 Task Group for Lunar Nomenclature
- G.203-G.223 Working Group for Planetary System Nomenclature 1973-1986
- 'Planetary nomenclature'. Contents of Runcorn's bundle so inscribed. Most of the later material is copies of Working Group documents sent to Runcorn for information.
- G.203 Correspondence and papers *re* establishment and early activities of the Working Group, 1973-1974.
- Includes minutes of first meeting of Working Group, Ottawa, Canada, June 1974.
- G.204 Correspondence and papers, 1975.
- G.205 Papers, 1976.
- Includes 'Topographic nomenclature on planetary bodies' by P.H. Millman, President of the Working Group, February 1976.
- G.206 Papers, 1977.
- Minutes of fourth meeting, Washington D.C., USA, June 1977; report on the Working Group from *Trans. I.A.U.* vol 16B (1977).

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- G.207 Minutes of fifth meeting, Innsbruck, Austria, June 1978.
- G.208 Correspondence and papers, 1978-1979.
- G.209 Minutes of sixth meeting, Montreal, Canada, August 1979.
- G.210 Report of Working Group for the years 1977-1979, April 1980.
- G.211 Papers, 1980.
Includes minutes of seventh meeting, Budapest, Hungary, June 1980.
- G.212 Papers, 1981.
Includes minutes of eighth meeting, Bath, April 1981.
- G.213 Correspondence and papers *re* 18th IAU General Assembly, Patras, Greece, August 1982.

Runcorn attended this Assembly in connection with a number of his IAU activities. These papers relate to the meetings of the Working Group on Planetary Nomenclature.

Includes minutes of ninth meeting held during the Assembly and Report of meetings 1980-1982.
- G.214 Correspondence and papers, 1983-1984.
- G.215 Minutes of Working Group meeting, Tbilisi, Georgia, USSR, and report on actions arising, June 1984.
- G.216 Correspondence and papers, January - August 1985.

Includes difficulties of nomenclature arising from large scale mapping of the nearer planets.

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- G.217 Minutes of meeting, Pasadena, California, August 1985.
- G.218 Papers, September - December 1985.
- G.219 Papers, February -April 1986.
- G.220 Papers, June 1986.
Includes material on Soviet input into Working Group; naming satellites of Uranus.
- G.221 Papers, July 1986.
Includes material on naming satellites of Uranus.
- G.222 Papers, August 1986.
Includes minutes of Working Group meeting, Toulouse, France, June and July 1986 and agenda for meeting, Moscow, USSR, August 1986.
- G.223 Papers, September-October 1986.
- G.224-G.230 Task Group for Lunar Nomenclature 1978-1987
- G.224 Correspondence and papers, 1978.
Includes list of names for lunar features.
- G.225 Correspondence and papers, May - September 1979.
- G.226 Lists of names for lunar features.

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- G.227 Correspondence and papers, 1980.
- G.228 Correspondence and papers, 1982-1983.
- G.229 Correspondence and papers, 1985-1986.
Largely *re* names of scientists and others for lunar features.
- G.230 Correspondence and papers, 1987.
Largely *re* names of scientists and others, including the US astronauts who died on board the Space Shuttle 'Challenger'.
- G.231-G.277 INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS 1965-1984**
- | | |
|-------------|---|
| G.231-G.238 | General correspondence and papers |
| G.239-G.258 | Upper Mantle Committee |
| G.259-G.264 | International Association of Seismology and Physics of the Earth's Interior |
| G.265-G.268 | International Association of Geomagnetism and Aeronomy |
| G.269-G.272 | Inter-Association Committee on Mathematical Geophysics |
| G.273-G.277 | Inter-Association Committee on Planetary Science |
- G.231-G.238 General correspondence and papers 1967-1983**
- Chiefly *re* arrangements for and business of IUGG General Assemblies.
- G.231 14th General Assembly, Zürich, Switzerland, 25 September - 7 October 1967.
See also G.240, G.241.

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- /... Runcorn was a delegate to the International Association of Geomagnetism and Aeronomy.
Chiefly circulars from British National Committee for Geodesy and Geophysics *re* arrangements and related correspondence, 1965-1967.
- G.232 15th General Assembly, Moscow, USSR, 28 July-14 August 1971.
Runcorn was a delegate to the International Association of Geomagnetism and Aeronomy.
Chiefly circulars from British National Committee for Geodesy and Geophysics *re* arrangements and related correspondence, 1970-1971.
- G.233-G.235 16th General Assembly, Grenoble, France, 25 August - 5 September 1975.
Runcorn was a delegate to the International Association of Geomagnetism and Aeronomy.
- G.233 Chiefly circulars from British National Committee for Geodesy and Geophysics *re* arrangements and related correspondence, 1974-1975.
- G.234, G.235 Symposium no. 34 'Physics and Chemistry of the Moon Lunar and Planetary Interiors', 26 August 1975.
This symposium, initially titled 'Physics and Chemistry of Lunar and Planetary Interiors', was co-sponsored by the International Association of Seismology and Physics of the Earth's Interior, the International Association of Volcanology and Chemistry of the Earth's Interior and the Inter-Union Commission on the Moon.
Runcorn and W.M. Kaula were co-organisers.
- G.234 Correspondence *re* feasibility of symposium and initial arrangements, 1974.
- G.235 Correspondence *re* arrangements, 1975; programme; abstracts. 1975.
- G.236 Papers *re* status of the People's Republic of China in IUGG, 1977.

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- G.237 Correspondence, including proposal to host the 17th IUGG General Assembly in the UK, 1978.
- G.238 18th General Assembly, Hamburg, West Germany, 15-27 August 1983.
- Runcorn was a delegate to the International Association of Geomagnetism and Aeronomy. He gave three presentations: 'Lunar palaeomagnetism, polar wandering and the existence of primeval lunar satellites', 'Geophysical interpretation of the geoid' and 'The role of the core in the irregular fluctuations of the Earth's rotation and the excitation of the Chandler wobble'.
- Chiefly circulars from British National Committee for Geodesy and Geophysics *re* arrangements and related correspondence, 1982-1983.
- Also includes abstracts of Runcorn's three contributions.
- G.239-G.258 Upper Mantle Committee 1965-1971**
- The Upper Mantle Project was launched in 1961 under the auspices of the IUGG and the International Union of Geological Sciences to coordinate and promote international efforts to increase understanding of the nature of the outer 700 km of the Earth. It officially ended in December 1970, although the final symposium was held at the Moscow General Assembly, 1971.
- The material is principally *re* business meetings and symposia of the Upper Mantle Committee (UMC). There is also a collection of the final national reports to the project, 1971.
- Runcorn was a member of the UK Upper Mantle Panel overseeing the British input into the project (see G.409-G.420).
- G.239 UMC Meeting and Symposia, Ottawa, Canada, 2-11 September 1965.
- Correspondence and papers *re* arrangements, 1965.
- G.240, G.241 UMC Meeting and Symposia, Zürich, Switzerland, 25 September - 7 October 1967.
- This was held during the 14th IUGG General Assembly (see G.231). Runcorn participated in the symposium on Rifts, speaking on 'Geometry of Flow in a sphere and the nature of rifting'.
- G.240 Correspondence *re* arrangements and Runcorn's contribution, 1966-1967.

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- G.241 Minutes of Meetings, 23, 26 September, 3 October 1967. Circulated April 1968.
- G.242-G.249 UMC Meeting and Symposia, Canberra, Australia, 5-11 January 1969.
- Runcorn participated in the Symposium on Phase Transformations and the Earth's Interior, speaking on 'Inhomogeneities in the Earth's mantle'.
- G.242 Correspondence and papers *re* arrangements for Canberra and arising from the meetings, 1968-1969.
- G.243-G.245 Papers for business meeting of the UMC, January 1969.
- 3 folders.
- G.246 Papers arising from business meeting, including proposals for a follow-on project to the Upper Mantle Project.
- G.247, G.248 Symposium on Phase Transformations and the Earth's Interior, 6-10 January 1969.
- G.247 First circular, 1968; abstract of Runcorn's contribution; list of participants, 1969.
- G.248 Bound set of symposium abstracts.
- G.249 'Notes on crustal studies in the territory of Papua and New Guinea' prepared by Bureau of Mineral Resources, Australia, ca 1968.
- 4pp duplicated typescript + plates.
- Found with preceding.

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- G.250, G.251 UMC Meeting and 6th Symposium on Geophysical theory and computers, Copenhagen, Denmark, 24-29 August 1969.
- Runcorn participated in the symposium, speaking on 'Sources of the external gravitational and magnetic fields of the Earth and planets'.
- G.250 Correspondence and papers *re* arrangements, 1969.
- G.251 Symposium programme; list of participants; abstracts.
- G.252 UMC Meeting, Madrid, 3,5,6 September 1969.
- This was held during the joint meeting of IASPEI and IAGA (see G.259-G.262).
- Correspondence and papers *re* arrangements, 1969; minutes circulated June 1970.
- G.253-G.256 UMC Meeting and Symposium, Moscow, USSR, July - August 1971.
- This final UMC meeting was held during the IUGG 15th General Assembly, Moscow, USSR, 28 July-14 August 1971 (see G.232). Runcorn presented a paper 'Physical processes in the lunar interior'.
- G.253 Correspondence *re* possible format and content of Moscow meetings, 1969.
- G.254 Correspondence with Soviet scientists and papers *re* arrangements, February - June 1970.
- Includes draft programme for symposium, June 1970.
- G.255 Correspondence *re* arrangements, September - December 1970.
- G.256 Correspondence and papers, 1971.
- Includes abstract of Runcorn's contribution.

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- G.257 Catalogue of Accessions to the World Data Center A Upper Mantle Project, 1 July 1970 - 30 June 1971.
- G.258 National reports on contributions to the Upper Mantle Project.

In alphabetical order: China (Taiwan), Czechoslovakia, Denmark, East Germany, Greece, Iceland, India, Italy, The Netherlands, Nigeria, Poland, Sweden (Uppsala), Switzerland.

1 bundle.
- G.259-G.264 International Association of Seismology and Physics of the Earth's Interior (IASPEI) 1969-1975**
- See also G.273-G.277.
- G.259-G.262 IASPEI meeting, Madrid, 1-12 September 1969.

This was held concurrently with IAGA (see G.266).

IASPEI and IAGA jointly held a Symposium on Geophysical Studies on the Evolution of the Earth's Deep Interior and the bulk of the material relates to this. Runcorn spoke on 'Heat transfer in the Earth's interior by convection'.
- G.259 Correspondence and papers *re* IASPEI events in September 1969.
- G.260-G.262 IASPEI/IAGA Symposium on Geophysical Studies, September 1969.
- G.260 First circular, 1969.
- G.261 Correspondence *re* arrangements; programme; list of papers; abstract of Runcorn's paper; etc.
- G.262 List of participants.
- G.263 Information on the International Seismological Centre and Commission Séismologique Européene. 1970.

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G.264 List of meetings, June 1975.

G.265-G.268 International Association of Geomagnetism and Aeronomy 1965-1984 (IAGA)

Runcorn was an IAGA delegate to IUGG General Assembly meetings.

G.265 Correspondence and papers *re* IAGA events at 14th General Assembly, 1967. 1965-1967.

Runcorn attended the 14th IUGG General Assembly as a delegate to IAGA (see G.231) and was organising secretary for the IAGA symposium on Recent Developments on Geoelectric and Geomagnetic Instrumentation.

G.266 Correspondence and papers *re* IAGA Assembly, Madrid, Spain, 1-12 September 1969.

This was held alongside the meeting of the IASPEI (see G.259-G.262).

G.267 Correspondence and papers *re* IAGA symposium on Geophysical Implications of Planetary Studies, Canberra, Australia, December 1979. 1977-1980.

The material includes correspondence *re* arrangements for IUGG Assembly and *re* other visits Runcorn made while in Australia.

G.268 Brief correspondence *re* IAGA meetings, 1980, 1984.

G.269-G.272 Inter-Association Committee on Mathematical Geophysics 1972-1980

This Committee arose out of the Working Group on Theory and Computers of the Upper Mantle Committee. It was constituted as a Committee in 1971. Runcorn was a member.

G.269 Papers from 9th International Symposium on Geophysical Theory and Computers and from meeting of the Committee, Banff, Canada, 25 August 1972.

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- G.270 Draft of Committee constitution and comments thereon, December 1972 - January 1973.
- G.271 Correspondence *re* site and programme of 1974 symposium, 1973-1974.
- G.272 Correspondence *re* symposia and meetings, 1976-1980.
- G.273-G.277 Inter-Association Committee on Planetary Science 1975-1983**
- 'IASPEI/IAGA Interassocn Cttee on Planetary Science (started Oct 1975)'. Contents of Runcorn's folder so labelled.
- Runcorn was nominated to this Association as an IAGA delegate on its creation in October 1975. His specific mandate was to cover the area of 'internal magnetic fields' although it was stressed this would also encompass wider aspects of planets' crust and cores.
- However, the material found in Runcorn's folder relates principally to the 1977 joint meetings of IASPEI and the International Volcanology and Chemistry of the Earth's Interior (IAVCEI), Durham, 8-19 August, and to subsequent meetings of the IASPEI.
- G.273 Correspondence *re* establishment of the Committee, 1975.
- G.274 Papers *re* meeting of the organising committee for the 1977 IASPEI/IAVCEI Assemblies, 23 September 1977.
- G.275 Correspondence and papers *re* joint meetings of IASPEI and IAVCEI, Durham, 8-19 August 1977.
- Runcorn gave a presentation on 'Mechanism of plate movements' and the Frontier Lecture on 'Comparisons between the Earth and terrestrial planets'.
- G.276 Correspondence and papers *re* Symposium on Relationships between Variations in the Earth's Rotation and Geophysical Phenomena, Canberra, Australia, December 1979.
- This took place during the IUGG General Assembly.

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- G.277 Correspondence *re* Runcorn's attendance at IASPEI meetings, 1980-1983.
- G.278 INTERNATIONAL UNION OF GEOLOGICAL SCIENCES 1977, 1983**
- G.278 Letter *re* Moon and Planets meeting, January 1977; papers *re* IUGS Advisory Committee on Comparative Planetology meeting, 1983.
- G.279-G.294 INTER-UNION COMMISSION FOR STUDIES OF THE MOON 1971-1977**
- The Inter-Union Commission for Studies of the Moon (IUCM) was established in 1970. The Commission brought together a number of International Scientific unions (with the International Astronomical Union as the parent body) to co-ordinate distribution of information and data on the Moon, to co-ordinate international meetings on the Moon and to discuss current problems in lunar research. Runcorn was a member representing IUGG and Chairman in 1975 (its last year). The Commission held its first meeting in 1971.
- It was dissolved in September 1975 and replaced by the Co-ordinating Committee for the Moon and Planets (CCMP) of COSPAR, of which Runcorn was first Chairman (see G.12-G.63).
- G.279 Correspondence and papers *re* first meetings, 1971.
- G.280 Papers, January, May 1972.
- Minutes of IUCM meeting November 1971 circulated January 1972; report of IUCM activities, May 1972.
- G.281 Correspondence and papers, chiefly *re* meeting in Paris, France, 28-29 November 1972, June - November 1972.
- Includes report of IUCM activities.
- G.282 'Lunar samples and the irradiation in the solar system' by J. Labeyrie, typescript paper presented at IUCM meeting in Paris, 29 November 1972.

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- G.283 Correspondence and papers, December 1972.
- G.284 Correspondence and papers, January - February 1973.
- G.285 Correspondence and papers, April - December 1972.
Includes material *re* 4th General Meeting of IUCM, Paris, France, 24-25 January 1974.
- G.286-G.288 Papers of 4th General Meeting of IUCM, Paris, France, 24-25 January 1974.
3 folders.
- G.289 Correspondence and papers, January - March 1974.
Includes draft of revised IUCM constitution, February 1972.
- G.290 Correspondence and papers, April - December 1974.
- G.291-G.293 Numbered papers for IUCM, 1974.
Found in Runcorn's folder.
3 folders.
- G.294 Correspondence and papers, 1975, 1977.
Includes correspondence *re* chairmanship and minutes of final General Meeting, March 1975.

Societies and organisations

G.295-G.300 JOINT SERVICES WEST-EAST SAHARA EXPEDITION 1973-1975

This Expedition traversed northern Africa across the Sahara from west to east, January - May 1975.

Runcorn was initially approached to suggest a geophysical project that could be undertaken as part of the expedition. He was then appointed chairman of a working group under the British National Committee for Geodynamics to plan a scientific programme for the expedition.

The material is correspondence and papers *re* possible scientific member of the expedition and research to be undertaken, and arrangements for the expedition.

G.295 Correspondence *re* possible scientific input, June - December 1973.

G.296 Correspondence and papers, January 1974.

G.297 Correspondence and papers, February 1974.
Includes proposed route map, 26 February 1974.

G.298 Correspondence and papers, March - June 1974.

G.299 Correspondence and papers, October - December 1974.
Includes expedition circulars detailing preparations to be made.

G.300 Correspondence, 1975.

Societies and organisations

G.301, G.302 LIBERAL PARTY 1964-1974

Runcorn was a member of the Liberal Party's Liberal Education Association.

G.301, G.302

Chiefly duplicated typescript papers *re* Liberal Party education policy.

At G.301 is poster for Hexham Constituency Liberal Association Day School, 15 February 1964 with Runcorn billed to speak on 'Higher Education'.

G.303-G.311 LUNAR SCIENCE INSTITUTE 1971-1980

The Lunar Science Institute was established in Houston, Texas, in 1968 as a centre for advanced research on lunar science. It became the Lunar and Planetary Institute in 1978.

Runcorn was a regular visitor to the Institute during his visits to the USA (see section H).

G.303

Printed booklet describing the work of the Lunar Science Institute, 1971.

G.304

Correspondence *re* difficulties in management of the Institute, 1973.

The Director of the Institute, J. W. Chamberlain, was removed from office in May 1973. Runcorn was among those who protested vigorously at this action.

G.305

Correspondence *re* Institute events and programs, 1974.

G.306

Papers, 1975.

Includes material *re* Lunar Cartographic Program.

G.307

Correspondence and papers, 1976-1977.

G.308

Correspondence and papers, chiefly *re* Institute events and programs, February - June 1978.

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- G.309 Papers *re* response to funding difficulties, July - December 1978.
- In July 1978 Congress voted to eliminate the lunar sample analysis program item from the NASA budget. The Lunar and Planetary Institute was deeply concerned at the effect upon lunar research and urged scientists to lobby the Congressmen involved.
- G.310 Brief correspondence, 1980.
- G.311 Research assessments, 1975, 1978.
- G.312 METEORITICAL SOCIETY 1977-1985**
- This Society promoted the study of meteorites and other samples of extraterrestrial matter. Runcorn became a member in 1977.
- He attended many meetings of the Society (see section H).
- G.312 Chiefly circular letters *re* membership, elections of officers and activities, 1977-1985.
- G.313 MINERALOLOGICAL SOCIETY 1984**
- G.313 One letter only, May 1984.
- G.314-G.319 MINISTRY OF SUPPLY 1956-1957**
- Runcorn served on the Measurements Panel of the Advisory Council on Scientific Research and Technical Development to 1956, and then on the Measurements Sub-Committee of the Weapon Research Committee of the Advisory Council on Scientific Research and Technical Development.
- G.314 Papers *re* 10th and 11th meetings of the Measurements Panel, October, November 1956.

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- G.315 Papers *re* 12th meeting of the Measurements Panel, January 1957.
- G.316 Correspondence *re* measurement of Earth's magnetic field, and notice of final meeting of Measurements Panel, January - April 1957.
- G.317 Papers *re* Measurements Sub-Committee, April-May 1957.
- G.318 Papers *re* 2nd meeting of the Measurements Sub-Committee, June 1957.
- G.319 Miscellaneous papers, 1957.
- G.320 MUSEUM OF NORTHERN ARIZONA 1977-1988**
- The Museum was at Flagstaff, Arizona. Runcorn was a Research Associate of the Museum.
- G.320 Later correspondence and papers *re* Museum activities, and personal correspondence from Museum staff, 1977-1988.
- G.321-G.333 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION 1975-1980 (NASA)**
- This is material labelled 'Lunar Polar Orbiter - NASA' by Runcorn. It relates to the proposal for a lunar polar orbiter as a joint project between NASA and the European Space Agency (see G.126-G.134).
- The bulk of the material relates to possible European participation in the project.
- G.321 Copy of 'Experiment proposal for the Lunar Polar Orbiter', by G.F.J. Garlick, July 1975.

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- G.321A Correspondence and papers, May - September 1976.
- G.322 'Lunar Polar Orbiter. Mission Summary', August 1976.
- G.323 Papers of the Lunar Polar Orbiter Science Working Team, November 1976 - January 1977.
- G.324 Correspondence and papers *re* difficulties over funding of the Lunar Polar Orbiter, February - April 1977.
- G.325 Correspondence and papers *re* European space programme, May 1977.
- G.326 Correspondence and papers *re* European space programme, including possible participation in lunar orbiting project, June 1977.
- G.327 Correspondence and papers *re* European space programme, including possible participation in lunar orbiting project, July 1977.
Includes paper 'ESA participation in a Lunar Polar Orbiter Mission', 11 July 1977.
- G.328 Correspondence and papers *re* NASA revival of the Lunar Polar Orbiter and possible European participation, August - September 1977.
- G.329 Papers of Lunar Polar Orbiter Science Working Team Meeting, USA, 10 October 1977.
- G.330 Correspondence, October 1977 - 1980.
- G.331 Runcorn's manuscript notes on specifications of lunar orbiter, n.d.
- G.332 NASA printed material *re* Lunar Polar Orbiter program, 1977.

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G.333 Miscellaneous printed and photocopied material on lunar orbiter, 1977.

G.334-G.338 NATIONAL SCIENCE FOUNDATION 1971-1987

Over an extended period from 1966, the US National Science Foundation (NSF) supported research at the University of Newcastle under Runcorn's supervision into the history of the Earth's rotation.

G.334-G.336 Correspondence and papers *re* NSF support and progress of research, 1971-1981.

G.334 1971-1973.

G.335 1975-1977.

G.336 1978-1981.

G.337 Correspondence with NSF *re* science funding environment in the US and the UK, 1983-1986.

G.338 Refereeing grant proposals, 1983-1987.

G.339-G.342 NORTH ATLANTIC TREATY ORGANISATION (NATO) 1971-1976

Contents of Runcorn's envelope inscribed '[...] NATO science briefing cttee 22/11/71-'.
[...]

Runcorn was a member of the NATO Science Briefing Committee, which reported to the Department of Education and Science's Committee on Overseas Scientific Relations. He also served on the NATO Science Committee.

Runcorn organised a number of NATO Advanced Study Institutes at the University of Newcastle upon Tyne (see section H).

Societies and organisations

G.339 Committee papers, November, December 1971.

G.340 Miscellaneous correspondence and papers, 1972-1973.

G.341 Papers, 1974-1975.

G.342 Papers, January 1976

G.343 NUFFIELD FOUNDATION 1976-1980

G.343 Correspondence *re* grants policy, 1976-1980.

G.344-G.365 PONTIFICAL ACADEMY OF SCIENCES 1979-1995

Although its origins lay in the early seventeenth century, the Pontifical Academy was re-established in 1936 by Pope Pius XI. It had a membership of about 70 of the world's leading scientists and held regular meetings to discuss major themes in contemporary science.

Runcorn was made an Academician in 1981. He attended a number of the Academy's meetings and most of the material concerns his contributions to these.

G.344 Correspondence *re* appointment to Academy, 1979, September-October 1981.

G.345 Correspondence and papers *re* Plenary Session of Academy, Vatican City, 3-6 October 1981.

Runcorn was introduced as a new Academician at this meeting.

G.346 Correspondence, chiefly *re* Academy working group on the medical consequences of a nuclear war, November 1981 - November 1982.

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- G.347 Biographical data provided by Runcorn to the Academy, February, March 1982.
- G.348 Miscellaneous correspondence and papers, January - October 1983
- G.349 Plenary Session on Science and Peace, 12-14 November 1983.

Runcorn gave a contribution on 'International co-operation in geoscience and Peace'.

Correspondence *re* arrangements and Runcorn's contribution, May - November 1983; paper by Abdus Salam sent 14 November 1983.
- G.350 Correspondence and papers, December 1983 - 1984.

Includes copy of statement issued by meeting on Effects of Atomic Explosions in the Atmosphere, 23-25 January 1984.
- G.351 Miscellaneous correspondence and papers, 1985.
- G.352-G.358 50th Anniversary Meeting on The Progress of Science and the Future of Mankind, 27-30 October 1986.

This meeting was held to celebrate the establishment of the Academy in 1936. Runcorn spoke on Earth Sciences, 30 October and contributed to the general discussion.
- G.352 Correspondence *re* arrangements, January - October 1986.
- G.353 Transcript of Runcorn's contribution, typescript with extensive manuscript correction.
- G.354 Transcript of discussion following Runcorn's contribution, typescript with extensive manuscript correction.
- G.355 Transcript of general discussion on the 'Future role of the Academy', including Runcorn's contribution.

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- G.356 Corrected typescript of Runcorn's contribution and discussion following, with further manuscript corrections.
- G.357 Correspondence arising, chiefly *re* publication of proceedings, November 1986 - June 1987.
- G.358 Proof copy of Runcorn's contribution, sent to him September 1988.
- G.359 Miscellaneous correspondence and papers, November 1986 - December 1987.
- G.360 Correspondence and papers, February - July 1988.

Includes correspondence *re* Plenary Session on the Responsibility of Science, 27-31 October.

Runcorn attended and spoke on 'The responsibility of the universities to society as we approach the 21st century' (see G.361).
- G.361 Manuscript rough draft of Runcorn's contribution on 'The responsibility of the universities to society'.
- G.362 Correspondence and papers, October - December 1988.
- G.363 Miscellaneous correspondence, 1989.
- G.364 Circulars, 1995.
- G.365 Printed material on the Academy, 1980s.

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G.366 **PROVINCIAAL UTRECHTS GENOOTSCHAP VAN KUISTEN** **1970-1975**
EN WETENSCHAPPEN

G.366 Printed papers, 1970-1975.

G.367-G.386 **ROYAL ASTRONOMICAL SOCIETY** **1967-1989**

Runcorn was a Fellow of the Royal Astronomical Society (RAS). He received its Gold Medal in 1984.

He attended many Royal Astronomical Society discussion meetings and these are documented in section H.

G.367-G.382 General correspondence and papers

G.383 Newsletters

G.384-G.386 Royal Astronomical Society Club

G.367-G.382 **General correspondence and papers** **1967-1988**

G.367 Correspondence and papers *re* assignment of editorial credit, 1967-1968.

G.368 Correspondence and papers *re* RAS Council business, 1967.

G.369 Chiefly refereeing papers for RAS journal, 1969-1971.

G.370 Programmes of scientific meetings, 1971-1973.

Runcorn is named as a contributor to those on Geomagnetic Daily Variations: sources, current and induction ('Results from transoceanic cables', with M. Richards), 28 January 1972; Geomagnetic and Planetary Dynamos ('Lunar and Jovian dynamos'), February 1972; and Mantle Plumes: myth or mechanism ('Plumes and solid state creep'), 11 May 1973.

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- G.371 Correspondence and papers, 1975-1977.
- G.372 Correspondence and papers, 1978.
Includes Runcorn's 2pp typescript obituary of N.D. Watkins.
- G.373 Correspondence and papers, 1979.
Includes programme of meeting of Geophysics and Planetary Physics section, Durham 10-11 April 1979. This followed a NATO Advanced Study Institute held at Newcastle.
Runcorn spoke on 'Energy sources for the lunar field'.
- G.374 Correspondence and papers, 1980-1981.
- G.375 Correspondence and papers, chiefly *re* discussion meeting 13-14 May, 1982.
See also H.581-H.585.
- G.376 Correspondence and papers, 1983-1984.
- G.377 Correspondence, January - September 1985.
Includes material *re* submissions to study group on 'The Future of UK Astronomy'
- G.378 Correspondence, October 1985.
- G.379 Correspondence and papers, 1986.
Includes abstract 'A model for geomagnetic jerks' by Runcorn.
- G.380 Correspondence and papers, 1987.

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- G.381 Correspondence, January 1988
- G.382 Correspondence, chiefly *re* 1989 memorial meeting for G.C. McVittie, February - June 1988.
See also H.863-H.872.
- G.383 Newsletters 1981-1983**
- G.383 Newsletters 1, 3-5, 1981-1983.
- G.384-G.386 Royal Astronomical Society Club 1972-1989**
- Runcorn was elected a Member of this Dining Club in 1972.
Correspondence, circulars etc *re* Club Dinners.
- G.384 1972-1978.
- G.385 1979-1984.
- G.386 1985-1989.
- G.387-G.731 ROYAL SOCIETY 1962-1989**
- Runcorn was elected to the Fellowship of the Royal Society in 1965.
- He served on many committees, panels and working groups concerned with the geosciences and planetary science. He also attended and helped to organise a number of Royal Society discussion meetings. These are documented in section H.

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The material is arranged as follows:

G.387-G.396	General correspondence and papers
G.397-G.399	British National Committee for Co-operation in Geophysics
G.400-G.473	British National Committee for Geodesy and Geophysics
G.474-G.498	British National Committee for Geodynamics
G.499-G.553	British National Committee for Space Research
G.554-G.574	Planetary Sciences Study Group
G.575-G.592	Space Ranging Research Committee
G.593-G.607	Allocation Committee for Soviet Lunar Samples
G.608-G.612	Provisional Space Science Advisory Board
G.613-G.639	Support for the Earth Sciences
G.640-G.714	Elections, grants and awards
G.715-G.722	Editorial
G.723-G.731	Royal Society Club

G.387-G.396	General correspondence and papers	1965-1988
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Correspondence *re* Royal Society policies, possible discussion meetings (see also section H), overseas visitors on Royal Society exchange schemes etc.

G.387	1965, 1971-1973.
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G.388	1974-1976.
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G.389	1977-1978.
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G.390	1979.
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| G.391 | 1980. |
| G.392 | 1981-1983. |
| G.393 | 1984-1985. |
| G.394 | 1986-1987. |
| G.395 | 1987. |
| G.396 | 1988. |
| G.397-G.399 | British National Committee for Co-operation in Geophysics 1964-1966 |
| | This was established in 1961 and continued to 1969.
Committee papers and correspondence. |
| G.397 | June - September 1964. |
| G.398 | November 1964. |
| G.399 | 1965-1966. |

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G.400-G.473 British National Committee for Geodesy and Geophysics 1962-1982

This was established in 1919. Runcorn was a member of the Committee. He also served on the Seismology and Physics of the Earth's Interior Subcommittee (Chairman of its East African Rift Working Group and Heat Flow Studies Working Group) and the Geomagnetism and Aeronomy Subcommittee. The Committee also oversaw the UK contribution to the International Upper Mantle Project through its Upper Mantle Panel.

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|-------------|---|
| G.400-G.408 | British National Committee |
| G.409-G.420 | Upper Mantle Panel |
| G.421-G.452 | Seismology and Physics of the Earth's Interior Subcommittee |
| G.453-G.473 | Geomagnetism and Aeronomy Subcommittee |

G.400-G.408 British National Committee papers 1962-1978

Committee papers and correspondence.

G.400 1962-1963.

G.401 1966.

G.402 1967.

G.403 1970.

G.404-G.406 1971.
3 folders.

G.407 1973-1977.

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- G.408 1978.
- G.409-G.420 **Upper Mantle Panel** 1962-1971
For papers relating to the Upper Mantle Committee of the International Union on Geodesy and Geophysics, see G.239-G.258.
- G.409-G.413 'Pacific Cables'.
Contents of Runcorn's folder so inscribed. In 1962 the Upper Mantle Panel decided to establish a small committee to study the use of redundant submarine cables. This was an area in which Runcorn had a personal research interest (see also D.167-D.185, D.262-D.274, D.300-D.303 and D.316-D.319).
- G.409 Correspondence and papers, 1962-1964.
- G.410 Correspondence, *re* utilisation of cables, and general Upper Mantle Panel business, 1966.
Includes draft of UK report to Upper Mantle Committee.
- G.411 Correspondence and papers, *re* state of Pacific Ocean and other cables, 1967.
- G.412 Correspondence, *re* use of Pacific Ocean cables, 1968.
- G.413 Correspondence and papers, 1969-1971.
- G.414-G.420 Papers of the Upper Mantle Panel, 1962-1967.
- G.414, G.415 1962, 1965.
2 folders.
- G.416 1966.

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G.417-G.420	1967. National reports on the Upper Mantle Project. 4 folders.	
G.421-G.452	Seismology and Physics of the Earth's Interior Subcommittee	1966-1981
	G.421-G.439	Subcommittee papers
	G.440-G.445	Heat Flow Studies Working Group
	G.446-G.452	East Africa Rift System Working Group
G.421-G.439	Subcommittee papers	1966-1981
	Committee papers and correspondence.	
G.421	1966.	
G.422	1970.	
G.423	July 1971.	
G.424	October 1971.	
G.425	October - December 1971. Papers on the future of the International Seismological Centre.	
G.426	1972.	
G.427	1973.	

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G.428	1974.
G.429	May 1975.
G.430	December 1975.
G.431	January 1976.
G.432	February - April 1976.
G.433	June 1976.
G.434	1977.
G.435	1978.
G.436	March, April 1979.
G.437	October 1979.
G.438	1980.
G.439	1981.

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- G.440-G.445 Heat Flow Studies Working Group 1967-1972
- Contents of Runcorn's folder inscribed 'Heat Flow sub-cttee'.
- This Group, initially an *ad hoc* panel under the Upper Mantle Panel, was established following a request from the Panel for research into the global distribution of heat flow. Runcorn was chairman. The Working Group was placed under the Seismology and Physics of the Earth's Interior Subcommittee in 1971.
- Chiefly papers of meetings of the group and correspondence *re* negotiations with oil companies, the National Coal Board and other organisations *re* use of abandoned boreholes for making heat flow measurements.
- G.440 Correspondence *re* possible use of boreholes to measure heat flow, and papers of meeting, 1967.
- G.441 Correspondence and papers *re* use of boreholes, 1968.
- G.442 Correspondence, chiefly *re* trial use of British Petroleum borehole at Eakring, Nottinghamshire, and papers of meeting, 1969.
- G.443 Correspondence, chiefly with Shell Research, and papers of meeting, 1970-1971.
- G.444 Correspondence, chiefly with Shell and T.F. Gaskell of BP, 1972-1973.
- G.445 Miscellaneous background material on geothermal data from boreholes and oil wells, sent to Runcorn by J.P. Poley, Shell Research N.V., 1971.
- G.446-G.452 East Africa Rift System Working Group 1968-1978
- This Group, initially an *ad hoc* panel under the Upper Mantle Panel, was established following a request from the Panel to discuss and advise on proposed geophysical and geological research in the area. Runcorn was chairman. The Working Group was wound up in 1978.
- G.446 Correspondence *re* establishment of the Working Group, February - June 1968.

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- G.447 Papers of first meeting, June 1968.
- G.448 Correspondence and papers, April - September 1970.
- G.449 Papers of meeting, October 1970.
Includes fifth 'U.K. Information sheet on The Upper Mantle Project. Issue devoted to studies of East African Rift System', October 1970.
- G.450 Correspondence and papers, October - December 1970.
Includes papers on East African Rift System by B.C. King, November 1970, and response by D.H. Griffiths, December 1970.
- G.451 Papers of meeting and correspondence and papers arising, February - May 1971.
- G.452 Exchange *re* winding up the Group, 1978.
- G.453-G.473 **Geomagnetism and Aeronomy Subcommittee** **1965-1982**
This subcommittee co-ordinated the UK's relations with the International Association for Geomagnetism and Aeronomy (see G.265-G.268).
Papers of meetings of the Subcommittee and information.
- G.453 February 1965.
- G.454 March 1965.
- G.455 April 1965 - August 1966.
Includes papers of meeting of *ad hoc* Earth Magnetism Committee, chaired by E.C. Bullard, which met in April 1966.

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G.456	1967.
G.457	April 1971.
G.458	April - December 1971.
G.459	1972.
G.460	March, April 1973.
G.461	November 1973.
G.462	April 1975.
G.463	November 1975.
G.464	1976.
G.465	January - July 1977.
G.466	October 1977.
G.467	July 1978.
G.468	November 1978.
G.469	April 1979.

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G.470 October 1979.

G.471 May 1980.

G.472 May 1981.

G.473 October 1981, 1982.

G.474-G.498 British National Committee for Geodynamics 1971-1980

This was established under the chairmanship of John Sutton in March 1971 following an *ad hoc* meeting held to consider how best the British National Committees of Geology and of Geodesy and Geophysics should co-ordinate co-operation with the newly created Inter-Union Commission on Geodynamics. Runcorn was a member from establishment to its dissolution in 1980.

At the suggestion of the Committee an *ad hoc* Group on High Pressure Studies was established in December 1973 under Runcorn's chairmanship 'to review current UK work in high temperature-high pressure studies with the view of enunciating a coherent policy' towards the area. It reported in 1975.

G.474-G.488 British National Committee

G.489-G.498 *Ad hoc* Group on High Pressure Studies

G.474-G.488 British National Committee 1971-1980

Chiefly papers of meetings.

G.474 Papers of initial meeting to consider the UK's contribution to the new Inter-Union Commission, February 1971; letter inviting Runcorn to join the Committee, March 1971.

G.475 Papers of meeting, May 1971.

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- G.476 Papers of meeting and immediately arising, July 1971.
- G.477 Papers, July - October 1971.
Includes preliminary statement 'Geodynamics Project - Evolution of a United Kingdom Programme', July 1971.
- G.478 Papers of meeting, October 1971.
Includes copies of assessments of projects to be included in the Geodynamics Project.
- G.479 Papers of meeting, December 1971.
- G.480 Correspondence and papers, February - November 1972.
- G.481 Papers of meeting, October 1972.
- G.482 Papers of meeting, November 1973.
- G.483 Papers, 1974.
- G.484 Papers of meeting, March 1975.
- G.485 Papers of meeting, December 1975.
- G.486 Papers of meeting, February 1977.
- G.487 Papers of meeting, November 1978.

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- G.488 Letter *re* winding up of the Committee, with copy of 'Final United Kingdom report on the Geodynamics Project 1970-1979', February 1980.
- G.489-G.498 ***Ad hoc* Group on High Pressure Studies** 1973-1975
- G.489 Correspondence and papers *re* establishment of the group and first meeting, November - December 1973.
- G.490 Correspondence *re* questionnaire on current UK work in high pressure studies, with photocopies of completed questionnaire forms, December 1973 - January 1974.
- G.491 Correspondence and papers, January - May 1974.
- G.492 Papers of meeting of group, May 1974.
- G.493 Papers arising from meeting, May - June 1974.

Includes 'Notes for the Working Group on High Pressure Studies, by D.C. Tozer, 17 May 1974.
- G.494 Papers of meeting of group, June 1974.
- G.495 Draft report of group, 11 July 1974.
- G.496 Papers of meeting of group, July 1974, and arising, July - December 1974.
- G.497 Draft of Final Report of group, December 1974.
- G.498 Papers of final meeting of group, February 1975.

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G.499-G.553 British National Committee for Space Research 1964-1988

This was established in 1959.

In 1974 the Committee established a Subcommittee on Planetary Sciences (replacing the Royal Society Planetary Sciences Study Group, see G.554-G.574) to promote and encourage joint discussion meetings on planetary sciences and to advise the National Committee on matters relating to the UK contribution to planetary sciences. The Subcommittee formed four Study Panels, dealing with Atmospheres, Interiors and Surfaces, Particles and Fields, and Structure and Dynamics. A fifth Study Panel on Solar Physics was subsequently established. The Subcommittee became a Working Group in 1983.

Runcorn served on the Subcommittee on Planetary Sciences and the Panels on Interiors and Surfaces (Chairman), Particles and Fields, and Structure and Dynamics.

G.499-G.503 British National Committee

G.504-G.553 Planetary Sciences Subcommittee

G.499-G.503 British National Committee 1964-1973

G.499 Papers, chiefly *re* European Space Research Organisation, 1964.

G.500 Papers, 1965.

G.501 Draft UK report to COSPAR for 1964-1965.

Further material relating to the UK contribution to the Committee on Space Research (COSPAR) is at G.12-G.63.

G.502 Correspondence *re* two-day discussion meeting to present results of Mariner 9 Orbiting Mission, Royal Society, London, 15-16 May 1973. 1972.

G.503 Papers *re* 16th COSPAR meeting, Konstanz, West Germany, 1973.

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G.504-G.553	Planetary Sciences Subcommittee	1972-1988
G.504-G.539	General Subcommittee papers	
G.540-G.544	Interiors and Surfaces Study Panel	
G.545-G.548	Particles and Fields Study Panel	
G.549-G.553	Structure and Dynamics Study Panel	
G.504-G.539	General Subcommittee papers	1972-1988
G.504	Correspondence <i>re</i> establishment of Subcommittee, 1972-1973.	
G.505	Papers of first meeting of Subcommittee and correspondence arising, January 1974.	
G.506	Papers of meeting, March 1974.	
G.507	Correspondence <i>re</i> and papers of meeting, October 1974.	
G.508	Papers of meeting, March 1975.	
G.509	Correspondence, March - November 1975.	
G.510	Papers of meeting, February 1976.	
G.511	Papers of meeting, November 1976.	
G.512	Miscellaneous correspondence and papers, March - September 1977.	

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- G.513 Papers of meeting, May 1977.
- G.514 Papers *re* Subcommittee review of the Science Research Council review of planetary sciences in the UK, August 1977 - April 1978.
Includes bound copy of the report, December 1977.
- G.515 Papers of meeting, November 1977.
- G.516 Correspondence *re* discussion meeting on Impact Magnetisation, 23 November 1977. September-November 1977.
- G.517 Papers of meeting, May 1978.
- G.518 Correspondence and papers *re* discussion meeting on solar variability and carbon-14, Royal Society, 23 November 1978.
- G.519 Correspondence, December 1978 - May 1979.
Chiefly *re* discussion meeting on early solar system history, Royal Society, London, held after Subcommittee business meeting, 4 May (G.520).
- G.520 Papers of meeting, May 1979.
- G.521 Correspondence *re* possible discussion meeting on changes in the climate of the Earth over 10^8 years, Royal Society, London, 8 February 1980. December 1979 - February 1980.
Includes Runcorn's 1p manuscript list of possible participants.
- G.522 Correspondence *re* discussion meeting on recent planetary science results, Royal Society, London, held after Subcommittee business meeting, 7 March (G.523). January - March 1980.

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- G.523 Papers of meeting, March 1980.
- G.524 Correspondence *re* possible discussion meetings, December 1980 - April 1981.
- G.525 Papers of meeting, March 1981.
- G.526 Reports on conferences, March 1981.
- G.527 Papers of meeting, May 1982.
- G.528 Correspondence and papers, January - February 1983.
Includes material *re* establishment of Planetary Sciences Working Group to replace the Subcommittee.
- G.529 Papers of first meeting of Working Group, March 1983.
- G.530 Correspondence *re* visit of J.F. Kerridge to UK, March - August 1983.
Kerridge, of the University of California Los Angeles Institute of Geophysics and Planetary Physics, spoke at a discussion meeting of the Working Group on his visit to the UK, 31 August 1983.
- G.531 Papers of meeting, December 1983.
- G.532 Draft and final version of paper setting out the case for the continued existence of the Working Group, January and March, 1984.
- G.533 Minutes of meeting, November 1984.
- G.534 Papers of meeting, April 1985; letter arising, May 1985.

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- G.535 Papers of meeting, November 1985.
- G.536 Papers of meeting, May 1986.
- G.537 Papers of meeting, January 1987.
- G.538 Papers of meeting, March 1988.
- G.539 Newsletters and circular letters of 'Items of special interest', 1974-1980.
- G.540-G.544 Interiors and Surfaces Study Panel 1974-1978
- G.540 Correspondence *re* establishment and membership of the Panel, January 1974.
- G.541 Correspondence and papers *re* meeting, March 1974.
- G.542 Correspondence, November 1974 - October 1976.
- G.543 Correspondence and papers *re* Panel meeting on the possible influence of the geomagnetic field and other external factors on the climate and evolution of life, 25 January 1977. December 1976 - February 1977.
- G.544 Correspondence and papers, February 1977 - December 1978.
- G.545-G.548 Particles and Fields Study Panel 1974-1984
- G.545 Papers, chiefly *re* meeting of the Panel in July, 1974.
- G.546 Papers *re* preparation of consultative document, 1975.

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- G.547 Report of the Particles and Fields Study Panel on UK work in the area, March 1976.
- G.548 Miscellaneous papers, 1976-1984.
- G.549-G.553 Structure and Dynamics Study Panel 1974-1980
- Chiefly *re* meetings and reports on work being done in the area of structure and dynamics of planets.
- G.549 Correspondence and papers *re* establishment of Panel and first meeting, January - February 1974.
- G.550 Correspondence and papers, May - December 1974.
- G.551 Papers, 1975.
- Includes draft report of the Panel, October 1975.
- G.552 Papers, 1976-1977.
- G.553 Correspondence and papers, 1978-1980.
- G.554-G.574 Planetary Sciences Study Group 1969-1973**
- This was established in 1970 following a meeting in November 1969 to consider planetary science in UK. Runcorn chaired this meeting. The Study Group was set up, again under Runcorn's chairmanship to continue this work. It was wound up in 1973 and replaced in 1974 by the Subcommittee on Planetary Sciences, established under the British National Committee for Space Research (see G.504-G.553)
- Most of the material relates to discussion meetings organised by the Study Group.
- G.554 Notes on meeting of 14 November 1969.

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- G.555 Papers *re* establishment of Study Group, January 1970.
- G.556 Correspondence and papers *re* first discussion meeting, on Apollo lunar samples, 24 February 1970.

Runcorn spoke on magnetism and the origin of the Moon.

Includes report of meeting, including abstracts.
- G.557 Correspondence, from R. Hide, and papers *re* Study Group, May - August 1970.
- G.558 Correspondence and papers *re* discussion meeting on interplanetary matter, 2 June 1970.

Includes report of meeting.
- G.559 Correspondence and papers *re* discussion meeting on furthering planetary science in the UK, 6 October 1970. September - October 1970.

Includes abstracts.
- G.560 Correspondence and papers, October - November 1970.
- G.561 Programme and abstracts of discussion meeting on Apollo samples, 7 December 1970.
- G.562 Miscellaneous correspondence and papers, November - December 1970.
- G.563 Notice, programme and abstracts of discussion meeting on planetary interiors, 16 February 1971.

Runcorn spoke on 'Recent work on the moon'.

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- G.564 Correspondence and papers *re* discussion meeting on aspects of the solar system, 24 May 1971. March - May 1971.
- Includes papers by S.F. Dermott, J.W. Dolman and B.R. Rosen, and F.R. Stephenson.
- G.565 Correspondence *re* future of the Study Group and arrangements for discussion meetings, May - August 1971.
- The Study Group had been established by the Royal Society for two years and December 1971 would mark the end of its existence. It was subsequently reprieved for another year.
- G.566 Papers of meetings of Study Group Working Party and correspondence arising, September 1971.
- G.567-G.569 Correspondence and papers *re* discussion meeting on planetary sciences in the UK, 8 November 1971.
- This meeting coincided with the visit of the Apollo 15 astronauts to the UK and there is a little material relating to this.
- G.567 Correspondence and papers *re* arrangements, September - November 1971.
- G.568, G.569 Papers presented.
- 2 folders.
- G.570 Correspondence, chiefly *re* future discussion meetings, November - December 1971.
- G.571 Informal Study Group meeting on the possibility of a Lunar Polar Orbiter, 23 March 1972.
- This was presented by Runcorn. For further material relating to this project see G.126-G.134, G.321-G.333.
- Letter *re* meeting; notes of meeting; manuscript and typescript draft of Runcorn's presentation.

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G.572 Correspondence and papers *re* discussion meeting on the origins of the solar system, 27 March 1972. January - March 1972.

G.573 Correspondence *re* future of the Study Group and discussion meetings, May - July 1972.

G.574 Correspondence *re* future discussion meetings, August 1972 - May 1973.

G.575-G.592 Space Ranging Research Committee 1971-1978

This Committee was established by the Royal Society in January 1973 to oversee UK participation in the international laser ranging to the Moon programme.

American astronauts had placed reflecting systems on the Moon, which would facilitate accurate measurements of the Moon, including detection of anomalies such as polar wobble.

In December 1971 an *ad hoc* Lunar Laser Ranging Meeting was held to consider a possible UK contribution. It was decided to seek support for a British initiative from the Science Research Council, and a drafting group met in June 1972 to prepare a bid under the names of Runcorn and S.A. Ramsden of the University of Hull. This was submitted in April 1973.

G.575 Papers of *ad hoc* Lunar Laser Ranging Meeting, Royal Society, London, 22 December 1971.

G.576 Correspondence and papers, January - March 1972.

Includes information on US work on lunar ranging.

G.577 Correspondence and papers, April 1972.

Includes photocopies of relevant material preparatory to a meeting of the drafting group in June.

G.578 Correspondence and papers, May 1972.

Includes minutes of *ad hoc* meeting on laser ranging, Royal Society, 22 May.

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- G.579 Correspondence and papers, June - September 1972.

Includes 3pp manuscript notes by Runcorn on the laser ranging project, ca June, and 3pp typescript 'Tentative proposal for a joint British-South African Lunar Laser Ranging Observations Programme', September 1972.
- G.580 Papers of meeting of Lunar Laser Ranging Drafting Group, 12 October 1972.
- G.581 Papers for draft proposal to the Science Research Council, October 1972.

These papers set out the case for a UK contribution to Lunar Laser Ranging and equipment required.
- G.582 Correspondence and papers, November 1972.
- G.583 Correspondence and papers, December 1972 - February 1973.

Includes notification of establishment of Space Ranging Research Committee.
- G.584 Papers of first meeting of Committee, 13 February 1973.
- G.585 Application to the Science Research Council (SRC) for funding, April 1973.
- G.586 Correspondence and papers, May - June 1973.
- G.587 Papers of meeting, 21 June 1973.
- G.588 Correspondence and papers, chiefly *re* progress of application to the SRC, July - October 1973.
- G.589 Correspondence and papers, chiefly *re* progress of application to SRC, November - December 1973.

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- G.590 Correspondence, chiefly *re* South African or Australian participation, February - May 1974.
- G.591 Drafts *re* UK proposals for Lunar Laser Ranging programme, July 1974.
- G.592 Papers of meeting, 19 March 1976; letter of thanks for service on Committee, 1978.
- G.593-G.607 Allocation Committee for Soviet Lunar Samples 1972-1978**
- This was established in 1972 with Sir Kingsley Dunham as Chairman. Runcorn was a member of the Committee.
- G.593 Correspondence *re* establishment of the Committee, July - November 1972.
- G.594, G.595 Papers for first meeting of Committee, 26 October 1972.
2 folders.
- G.596, G.597 Papers of meeting of Committee, November 1972.
2 folders.
- G.598 Correspondence, December 1972 - August 1973.
- G.599 Papers of meeting of Committee, October 1973.
- G.600 Papers of meeting of Committee, May 1974.
- G.601 Papers of meeting of Committee, October 1974.

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- G.602 Correspondence and papers, September - December 1976.
- G.603 Correspondence and papers, February - May 1977.
- G.604 Questionnaire sheets for proposed experiments for analysis of Luna-24 samples, *ca* April, May 1977.
- G.605 Notes on discussions between representatives of the Academy of Sciences of the USSR and Royal Society, *re* selection and presentation of lunar samples, with details of samples, May 1977.
- G.606 Correspondence and papers, June - December 1977.
Includes papers for meeting of Committee, 9 November 1977.
- G.607 Correspondence and papers, March - May 1978.
- G.608-G.612 Provisional Space Science Advisory Board 1974-1975**
- This provisional body was established at a meeting of space scientists at the Royal Society in April 1974. It advised the European Science Foundation (see G.78-G.111) on space science studies. Runcorn was a member.
- G.608 Papers *re* establishment of the Board, May - June 1974.
- G.609 Papers of Board meeting, July 1974.
- G.610 Papers of Board meeting, November 1974.
- G.611 Papers of Board meeting, March 1975.
- G.612 Papers, April - August 1975.

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G.613-G.639 Support for the Earth Sciences 1969-1988

This material documents Runcorn's continued interest in and concern for the support available for postgraduate study and research in the earth sciences, and geophysics in particular.

G.613-G.619 Committee on Post-graduate Education in the Earth Sciences

G.620-G.635 *Ad hoc* Group on Support of Geophysics in the UK

G.636-G.639 Royal Society/Natural Environment Research Council Review of Research Priorities in the Earth Sciences

G.613-G.619 Committee on Post-graduate Education in the Earth Sciences 1969 - ca 1970

Runcorn was appointed to this committee in 1967. It had held no meeting during his time on the committee until his offer to resign in early 1969 galvanised it into action.

G.613 Correspondence *re* meeting of the Committee, January - March 1969.

G.614 Correspondence and papers, April 1969.

Includes duplicated typescript 'General conclusion' on Ph.D. students in the earth sciences, and minutes of meeting 23 April.

G.615 Correspondence and papers, June 1969.

Includes copy of questionnaire on postgraduate training in the earth sciences circulated to UK universities.

G.616 Correspondence and papers, July - October 1969.

G.617 Papers *re* response to questionnaire on postgraduate training, October 1969.

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- G.618 Papers *re* response to questionnaire on postgraduate training, December 1969.
- G.619 Duplicated typescript draft of report on post-graduate training in the earth sciences, *ca* 1970.
- G.620-G.635 ***Ad hoc* Group on Support of Geophysics in the UK** 1983-1985
- This group was established following a letter from Runcorn to Sir Andrew Huxley, President of the Royal Society, expressing his concern at the relative lack of support for geophysics from the Natural Environment Research Council.
- It reported in June 1985.
- G.620 Initial letter to Huxley, 25 November 1983; related correspondence and papers, December 1983- January 1984.
- G.621 Minutes of meeting, 16 January 1984.
- G.622 Correspondence, January - March 1984.
- G.623 Papers of meeting, 6 March 1984.
- G.624 Correspondence *re* and papers for meeting, 28 March 1984.
- G.625 Papers of meeting, 30 April 1984.
- G.626 Papers of meeting, 21 May 1984.
- G.627 Papers of meeting, 28 June 1984.

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- G.628 Papers of meeting, 9 July 1984.
- G.629 Papers of meeting, 17 September 1984.
- G.630 Correspondence, September - November 1984.
- G.631 Papers of meeting, 27 November 1984.

This meeting was held to consider the third draft of the group's report (see G.632, G.633).
- G.632, G.633 Two copies of third draft of group report, with manuscript corrections and annotations; typescript list of corrections.

2 folders.
- G.634 Papers of meeting, 19 December 1984.

This meeting was held to consider the fourth draft of the group's report.
- G.635 Fifth draft of group's report, May 1985; correspondence and papers *re* publication of report, including Natural Environment Research Council response and photocopies of press coverage, June 1985.
- G.636-G.639 **Royal Society/Natural Environment Research Council** 1987-1988
Review of Research Priorities in the Earth Sciences

In June 1987 the Royal Society and the Natural Environment Research Council launched a joint survey of research priorities in the area of earth sciences for the 1990s. A Steering Group was established, with three Working Groups. Runcorn served on that Working Group looking at external physics and studies of the surfaces and interiors of the terrestrial planets.
- G.636 Exchange *re* establishment of the Review and invitation to serve, June 1987.
- G.637 Papers of meeting, 8 December 1987.

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- G.638 Papers for meeting, 16 February 1988.
- G.639 Submissions received by the Review, 1987-1988.
- G.640-G.714 Elections, grants and awards 1965-1989**
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|--------------|--|--|
| G.640-G.686 | Elections to the Fellowship of the Royal Society | |
| G.687-G.699 | Government Grant Board A | |
| G.700-G.705 | Leverhulme Studentships Committee | |
| G.706-G.709 | Fellowships Selection Subcommittee | |
| G.710, G.711 | Rutherford Memorial Committee | |
| G.712-G.714 | Miscellaneous | |
- G.640-G.686 **Elections to the Fellowship of the Royal Society** 1966-1989
- G.640-G.656 Sectional Committee 5 1966-1986
Runcorn served on this Committee, 1966-1969 and 1983-1986.
- G.640 January 1967.
- G.641 December 1967 - January 1968.
- G.642 November 1968.
- G.643 January 1969.
- G.644 May 1969.
- G.645 Brief correspondence *re* Runcorn's second period of service, 1983, 1986.

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G.646	November 1983.
G.647, G.648	January 1984. 2 folders.
G.649	May 1984.
G.650	November 1984.
G.651	January 1985.
G.652	April 1985.
G.653	November 1985.
G.654, G.655	January 1986. 2 folders.
G.656	May 1986.
G.657	Solicited advice from sectional committees, 1967-1987.
G.658-G.685	Prospective candidates, 1966-1989. Correspondence and papers mostly in alphabetical order, with shorter exchanges at the end of the sequence in chronological order.
G.658	A (1), 1978-1980.

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G.659	A (2), 1969-1981.
G.660	A (3), 1987-1988.
G.661	C (1), 1977-1981.
G.662, G.663	C (2), 1970-1988. 2 folders.
G.664	D, 1987.
G.665	G (1), 1981.
G.666	G (2), 1977.
G.667	H, 1966-1970.
G.668, G.669	I, 1968-1978. 2 folders.
G.670	L, 1979-1980.
G.671	M, 1976-1980.
G.672	P (1), 1980-1986.
G.673	P (2), 1966-1974.

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G.674	R, 1987-1988.
G.675	S (1), 1982-1988.
G.676	S (2), 1983-1987.
G.677	S (3), 1988-1989.
G.678	S (4), 1977.
G.679	T (1), 1980, 1985.
G.680	T (2), 1977-1979.
G.681	W, 1979, 1986.
G.682-G.685	Miscellaneous.
G.682	1968-1970.
G.683	1972-1976.
G.684	1977-1981.
G.685	1982-1988.
G.686	Correspondence and papers <i>re</i> meeting at Athenaeum Club, London, to discuss the election of geophysicists to the Royal Society, March - April 1988.

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G.687-G.699 **Government Grant Board A** 1968-1972

The Government Grant Boards made awards for costs of scientific apparatus and travel costs associated with scientific expeditions. Runcorn was appointed to Grant Board A, which dealt with mathematics, astronomy, statistics, geodesy, geophysics and meteorology, in 1969. He was appointed Chairman in 1971 succeeding W.H. McCrea.

G.687 Brief correspondence *re* membership and chairmanship, 1968, 1970.

G.688-G.699 Papers for meetings of the Grant Boards, with related correspondence, 1969-1972.

Board A did not always meet in person if there were insufficient applications to warrant the expense.

G.688 February 1969.

G.689 June 1969.

G.690 October 1969.

G.691 February and June 1970.

G.692 October 1970.

G.693 February 1971.

G.694 April 1971.

G.695 June 1971.

G.696 November 1971.

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G.697 February 1972.

G.698 June 1972.

G.699 October 1972.

G.700-G.705 **Leverhulme Studentships Committee** 1970-1973

Runcorn served on this committee which met annually to consider applications from promising students to undertake research projects.

Correspondence and papers *re* applications and meetings of the Committee.

G.700 1970.

G.701 1971.

G.702, G.703 1972.
2 folders.

G.704, G.705 1973.
2 folders.

G.706-G.709 **Fellowships Selection Subcommittee** 1970-1976

The Fellowships Selection Subcommittee of the International Relations Committee supported visiting research fellowships. Runcorn joined the Subcommittee in 1970.

Correspondence and papers *re* applications and meetings of the Committee.

G.706 1970, 1971.

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G.707	1972.	
G.708	1973, 1974.	
G.709	1976.	
G.710, G.711	Rutherford Memorial Committee	1971-1974
	Rutherford Scholarships, tenable for three years, were awarded annually to graduates pursuing experimental research, with a preference for experimental physics.	
	Correspondence and papers <i>re</i> applications and meetings of the Committee.	
G.710	1971, 1972.	
G.711	1973, 1974.	
G.712-G.714	Miscellaneous	1965-1986
G.712	1965-1975.	
G.713	1980-1983.	
G.714	1984-1986.	
G.715-G.722	Editorial	1970-1985
G.715-G.718	Papers of Associate Editors on the Physical side, 1970-1971.	
	Runcorn served as an Associate Editor on the Physical Editorial Board for the period covered by the papers.	

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G.715, G.716	1970. 2 folders.
G.717	1971.
G.718	Correspondence, 1970-1971.
G.719-G.722	Papers communicated by Runcorn for publication by the Royal Society. Correspondence and papers, 1975-1985.
G.719	1975-1976.
G.720	1978-1979.
G.721	1978-1983.
G.722	1984-1985.
G.723-G.731	Royal Society Club 1977-1988 Runcorn was elected a member of the Club in 1976. He served as a Treasurer from 1987. Chiefly papers of anniversary meetings of the Club
G.723	1977-1978.
G.724	1979-1980.
G.725	1981-1982.

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- G.726 1983.
- G.727 1984-1985.
- G.728 1986.
Includes notes of, and correspondence arising from, discussion on longevity at Club meeting, 27 February 1986.
- G.729 1987.
- G.730 January - May 1988.
Chiefly *re* visit of HRH Princess Anne to dine with the Club, 19 May 1988.
- G.731 June - August 1988.
- G.732 STANDING CONFERENCE OF PROFESSORS OF PHYSICS 1968-1970**

This was established in 1968. Runcorn was not present at the first meeting but attended subsequently.
- G.732 Papers of meetings, 1968, 1970.