

Catalogue of the papers and correspondence of

Stanley Keith Runcorn FRS

(1922-1995)

VOLUME III

Section H: Visits and conferences

Section J: Correspondence

Index of correspondents

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SECTION H VISITS AND CONFERENCES

H.1-H.897

From the 1950s to his death, Runcorn made a very great number of visits abroad, mainly to the USA but also to the continent of Europe and a few to Australia, Asia etc. It is sometimes difficult to keep an exact track of his whereabouts given his peripatetic lifestyle and it is not always clear whether planned visits did indeed always take place.

Although his visits to the United States generally were in connection with specific conferences or meetings - he was a regular attender at Lunar and Planetary Science conferences in Houston, Texas and American Geophysical Union meetings, for example - he very often also took the opportunity to visit colleagues and deliver lectures at other research centres and there may be voluminous correspondence relating to such more informal visits. There is also material relating to meetings within the UK. There is good documentation of Runcorn's attendance at Royal Astronomical Society and Royal Society discussion meetings, and of his work promoting, organising and contributing to NATO Advanced Study Institutes held at Newcastle.

Not all of Runcorn's visits are recorded, even in this very large section. Many meetings in connection with the international and European geophysics and planetary science organisations with which he was associated are documented in section G, Societies and organisations.

Visits and conferences

H.1, H.2 **Visit to the USA and Mexico, 1 June - 25 September 1956**

Runcorn visited colleagues at many universities and research institutions on the west coast and in the south west of the United States. In Mexico he attended the International Geological Congress where he delivered a lecture titled 'Geological aspects of rock magnetism.'

Correspondence mainly between Runcorn and his secretary *re* current and future arrangements in the USA and in the UK, 1956.

H.3, H.4 **Visit to the USA, 10 December 1956 - January 1957**

Runcorn visited the University of Texas in Austin where he gave ten lectures on geomagnetism as Visiting Professor of Physics. At Pennsylvania State University he lectured to the Mineral Industries Colloquium. He also visited colleagues in California.

H.3 Correspondence *re* arrangements,

H.4 Chapter outline of the 'Earth magnetism' lecture.

H.5 **International Geophysical Year event, 28-30 June 1957**

Information only.

H.6 **Visit to the USA and Canada, June - September 1957**

Runcorn visited the Museum of Northern Arizona, Flagstaff, Arizona and attended the 11th General Assembly of the International Union of Geodesy and Geophysics in Toronto.

Correspondence *re* arrangements, research, publication and students.

H.7 **Visit to the USA, July - September 1958**

Runcorn visited colleagues in Pennsylvania, the Museum of Northern Arizona, the La Habra Laboratory of the California Research Corporation, Bellaire, Texas, and the Ohio Oil Company, Littleton, Colorado.

Correspondence *re* arrangements and scientific matters (mainly rock collection).

Visits and conferences

H.8 **Visit to the USA, June - September 1959**

Runcorn visited colleagues in many universities and research institutions in the South West, California, Texas and Pennsylvania and Canada. He gave a talk at the Humble Oil and Refining Company, Houston, Texas.

Correspondence *re* arrangements and rock shipping to the UK.

H.9 **Visit to the USA, 15-20 April 1960**

Runcorn visited the Franklin Institute in Philadelphia and lectured on 'Rock magnetism, polar wandering and continental drift'. He also attended the Society of Economic Palaeontologists and Mineralogists 34th Annual meeting at Atlantic City, at which he spoke on 'Inferences from palaeomagnetic data'. He visited colleagues at many other universities and research institutions in the US.

Correspondence and papers *re* arrangements,

H.10 **Visit to Sierra Leone, 11-20 May 1960**

Runcorn visited Fourah Bay College.

Correspondence *re* expenses, 1960.

H.11, H.12 **Visit to the USA, August - September 1960**

Runcorn visited colleagues at many universities and research institutions in Oklahoma, New Jersey, the south west and Utah.

H.11 Correspondence *re* arrangements and shipping of rock samples to the UK.

H.12 Rock shipping receipt and travel expenses invoices.

Visits and conferences

H.13, H.14

Visit to the USA, June - October 1961

Runcorn was a temporary researcher at the California Institute of Technology. He gave a lecture at the University of California on continental drift and visited colleagues at other universities and research institutions in the south west and Ohio.

Correspondence *re* arrangements, research and rock collection.

H.15, H.16

Visit to the USA and Canada, December 1961 - January 1962

Runcorn visited the University of British Columbia, Canada and universities and research institutions in the US. He gave talks at the First Western National Meeting of the American Geophysical Union titled 'Convection theory of continental drift' and 'Palaeomagnetic measurement in the USA'. He also lectured on palaeomagnetism at the University of Cincinnati, Ohio.

Correspondence *re* arrangements.

2 folders.

H.17-H.25

Visit to the USA, April - September 1962

Runcorn went to the Jet Propulsion Laboratory in Pasadena, California as a Visiting Scientist. He attended the American Geophysical Union Meeting in Washington D.C. (25-27 April), gave a talk at MIT and at the Woods Hole Conference on Nuclear Geophysics. He also visited colleagues at other universities and research institutions in the south west, Texas, California and on the east coast.

H.17-H.23

Correspondence and papers *re* arrangements, scientific research and publications, students and university placements, November 1961 - February 1963.

7 folders.

H.19 includes a typescript of Runcorn's paper 'Convection and thermal histories of the Earth and Moon' delivered at the Woods Hole conference. H.20 includes a typescript of Runcorn's paper 'Convection currents in the Earth's Mantle'.

Visits and conferences

- H.24, H.25 Miscellaneous material.
- Includes Runcorn's draft correspondence (which has been crossed out) addressed to his (?) secretary, list of those attending National Science Foundation Conference on Lunar Exploration and copy of Runcorn's paper from *Nature*, 'Convection in the Moon'.
- 2 folders.
-
- H.26 **NATO Advanced Study Institute on Palaeoclimates, King's College, Newcastle upon Tyne, 7-12 January 1963**
- Provisional programme and typescript of Runcorn and A.E Nairn's collaborative paper entitled 'Palaeoclimates'.
-
- H.27, H.28 **Visit to Australia and the USA, April - June 1963**
- Runcorn visited the Australian National University in Canberra, and the Universities of Melbourne, Monash and Perth. Lectures included 'The theory of the Earth's magnetic field' to the Physical Society in Brisbane and 'Possible mechanisms for continental drift' to the Geological Society of Australia in Canberra. En route to Australia he attended the American Geophysical Union meeting in Washington D.C. 17-18 April.
- Correspondence *re* arrangements, Also includes a draft programme of the trip. June 1962-May 1963.
- 2 folders
-
- H.29, H.30 **American Geophysical Union meeting, Washington D.C., April 1963 and American Institute of Aeronautics and Astronautics Annual Meeting, Los Angeles, 16-20 June 1963**
- Runcorn gave lectures at the AGU Meeting on 'Convection currents and continental drift' and 'Convection and the thermal histories of the inner Planets', and at the AIAA meeting on 'The interior of the Moon'.
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- H.29 Correspondence *re* arrangements.
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- H.30 Programme of the AIAA meeting and abstract of Runcorn's paper 'The interior of the Moon'.

Visits and conferences

H.31, H.32

Visit to the USA, August - September 1963

Runcorn returned to the Jet Propulsion Laboratory in Pasadena to resume research on the lunar convection hypothesis. He also attended a conference on Artificial Satellites at the Virginia Polytechnic Institute (12-16 August 1963) and possibly the Assembly of the International Union of Geodesy and Geophysics at Berkeley California (21-24 August 1963). He may also have attended a meeting in September at the University of Pittsburgh.

H.31

Correspondence *re* arrangements,

H.32

Conference programmes and a typescript of paper by Runcorn 'The interrelation of paleomagnetism and paleoclimatology'.

H.33, H.34

Scientific Conference of the Eotvos Lorand University, Budapest, Hungary, 24-28 September 1963

Runcorn visited colleagues and gave a paper on palaeomagnetism.

H.33

Correspondence *re* arrangements,

H.34

Programme.

H.35

3rd Western National Meeting of the American Geophysical Union, Boulder, Colorado, 26-28 December 1963

Runcorn gave a lecture titled 'Satellite Gravity Observations and Convection in the Mantle'.

Correspondence and programme, typescript of Chi.Y. Wang's paper 'On the distribution of surface heat flows and the second order variations in the Earth's gravity field'.

H.36

Visit to the USA, 19-24 January 1964

Runcorn visited colleagues in Pennsylvania and California and gave lectures.

Correspondence *re* arrangements.

Visits and conferences

- H.37-H.42** **NATO Advanced Studies Institute on Procedures in Palaeomagnetism, University of Newcastle upon Tyne, 1-10 April 1964.**
- Runcorn was one of the organisers of the meeting. Following the conference he was involved in the publication of the proceedings, titled *Methods of Palaeomagnetism*.
- H.37-H.40 Correspondence *re* arrangements, November 1964 - April 1970.
- 4 folders
- H.41 Provisional programme, list of participants, etc.
- H.42 Agreement for publication of *Methods in Palaeomagnetism*, chapter outlines, review of the book.
- H.43** **American Geophysical Union Meeting, Washington D.C., 20 April-11 May 1964**
- In addition to attending this conference, Runcorn also visited colleagues at various universities and research institutions in Colorado, Texas and California. At Downey, California he spoke on 'The interior of the Moon', and at the Denver Geophysical Society and the Rocky Mountain Association of Geologists he spoke on the 'Physical mechanism of continental drift'.
- Correspondence *re* arrangements.
- H.44** **Visit to Italy, May 1964**
- Runcorn attended the COSPAR 7th Plenary Meeting, 8-20 May and 5th International Space Science Symposium, 12-16 May 1964, Florence.
- Programme only.
- H.45-H.48** **Visit to the USA, Canada and Central America, July - October 1964**
- Runcorn visited colleagues at universities and research institutions in north and central America. He also attended a conference on the Role of Simulation in Space Technology in Virginia, and lectured at the Boeing Scientific Research Laboratory in Seattle on 'The physics of the Moon interior' and at the Alberta Society of Petroleum Geologists, the University of Western Ontario, and the University of Alberta, Edmonton, Canada.

Visits and conferences

- H.45-H.47 Correspondence *re* arrangements and scientific research. March 1964-June 1965.
3 folders
- H.48 Programme of the Conference on the Role of Simulation in Space Technology, Virginia Polytechnic Institute, 17-21 August 1964.
- H.49-H.52 Visit to the USA, 16-25 November 1964**
- Runcorn visited colleagues in universities and research institutions on the east coast. He spoke on 'Palaeomagnetism and continental drift' at the Rensselaer Polytechnic Institute in Troy, and on 'Geomagnetism and palaeomagnetism', 'Paleoclimates and continental drift' and 'The mechanism of continental drift' at the University of Miami. He also lectured at Cornell University on 'Palaeomagnetism'.
- Runcorn also attended and spoke at the International Association of Geomagnetism and Aeronomy (IAGA) 'Symposium on Magnetism of the Earth's Interior', Pittsburgh, 16-20 November 1964 and the Annual Meeting of the Geological Society of America, Miami Beach, 21 November 1964.
- H.49-H.51 Correspondence *re* arrangements, January 1964 - January 1965.
3 folders.
- H.52 Programme of the IAGA Symposium and working group material and report.
- H.53-H.55 Visit to The Netherlands and Belgium, January 1965**
- Runcorn visited colleagues at universities and research institutions across The Netherlands and in Brussels.
- H.53, H.54 Correspondence *re* arrangements, October 1964 - May 1965.
2 folders.
- H.55 3pp manuscript notes.

Visits and conferences

H.56-H.58

Visit to Hungary, 22-26 March 1965

Runcorn visited the Geophysical Institute in Budapest. He gave lectures at the Hungarian Academy of Sciences on palaeomagnetism and continental drift, and at the Association of Hungarian Geophysicists on convection currents and the interpretation of satellite gravity observation, corals and the history of earth's rotation.

H.56, H.57

Correspondence *re* arrangements and scholarship for a Hungarian research student, August 1963 - May 1965.

2 folders.

H.58

Agreement for and report of the visit.

H.59, H.60

NATO Advanced Study Institute, 'Planetary and Stellar Magnetism, University of Newcastle upon Tyne, 26 April - 1 May 1965

Runcorn chaired one of the sessions and helped to organise the publication of the proceedings.

H.59

Correspondence *re* invitation, letters of thanks, publication of 'Magnetism and the Cosmos'.

H.60

Memos, programme of the conference and (?) list of attendees.

H.61-H.63

Visit to Scandinavia, 5-19 May 1965

Runcorn visited universities and research institutions throughout Scandinavia, including Lund University, the Geodaetisk Institut, Copenhagen, the Institute of Geodesy, Stockholm, Uppsala University and the Institutt for Teoretisk Meteorologi, Oslo. Lectures included 'Palaeomagnetism and continental drift', 'Palaeoclimates', 'Review of theories of the geomagnetic field' and 'The interpretation of the satellite gravity observations'.

H.61, H.62

Correspondence *re* arrangements, January - November 1965.

2 folders.

Visits and conferences

- H.63 Programme; itinerary; report of the visit.
- H.64 Visit to the Netherlands, 8-9 June 1965**
- Runcorn visited colleagues at the Shell Laboratory near The Hague and (?) the Rijksinstituut voor Visserij Onderzoek.
- Correspondence *re* arrangements.
- H.65, H.66 Visit to the USA, June - August 1965**
- Runcorn visited colleagues at universities and research institutions in Florida, the Institute of Geophysics and Planetary Physics at La Jolla, California, and the Boeing Scientific Research Laboratories in Seattle. He spoke on continental drift at the National Aeronautics and Space Administration, California.
- H.65 Correspondence *re* arrangements.
- H.66 Material *re* the planetary science course programmes at the University of Newcastle and the University of Miami.
- H.67-H.70 NATO Advanced Study Institute, 'The Mantle of the Earth and Terrestrial Planets', University of Newcastle upon Tyne, 30 March - 7 April 1966**
- Runcorn spoke on 'The problem of the figure of Mars', 'Some calculations on the shape of the Moon', 'The convection in the planets' and 'A palaeontological measurement of the rate of retreat of the Moon from the Earth'.
- See E.99, E.107 and E.115-E.117 for publication of proceedings.
- H.67 Correspondence *re* arrangements and the publication of the proceedings.
- H.68 List of participants.
- H.69, H.70 Typescript and manuscript drafts of papers.
- 2 folders.

Visits and conferences

H.71-H.75 **Visits to the USA, April and June - September 1966**

Runcorn was a Visiting Professor at the University of Miami where he gave 15 lectures. Here he was offered a post as part-time director of the new Institute of Solid Earth Physics.

Runcorn also lectured at the American Physical Society in Washington D.C. on 'Astronomy, space and the Earth's interior', at the Oceanographic Institution in Massachusetts on coral growth and at the 6th American Geophysical Union conference, Los Angeles, 7-9 September, on 'Investigation of palaeo-rotation of the Earth' and 'The figure of the Moon'.

H.71-H.73 Correspondence *re* arrangements, August 1965 - March 1968.

3 folders

H.74 Runcorn and other scientists' lectures programme delivered at the University of Miami (27 June-1 July), reading list and summer course subject list.

H.75 Programme of the American Geophysical Union meeting and abstracts of Runcorn's papers 'Investigation of palaeo-rotation of the Earth' and 'The figure of the Moon'.

H.76 **American Association for the Advancement of Science, Washington D.C, 29 December 1966**

Runcorn was chairman of the panel discussion on the lunar interior.

Correspondence and programme of the meeting.

H.77-H.82 **NATO Advanced Study Institute on 'The Application of Modern Physics to the Earth and Planetary Interiors', University of Newcastle upon Tyne, 29 March - 4 April 1967**

Runcorn was one of the organisers of the meeting and lectured on 'Gravitational fields of Earth and Moon as evidence of convection' and 'Palaeontological method of measuring change of G during phanerozoic time'.

See E.125 for publication of proceedings.

Visits and conferences

H.77, H.78 Correspondence *re* arrangements, October 1966-September 1970.
2 folders.

H.79 List of participants, draft programme and invitations.

H.80 Official programme and abstract.

H.81 Abstracts and typescripts of lectures.

H.82 Review of the proceedings.

H.83-H.88 Visit to the USA, April-August 1967

Runcorn was offered a Senior Foreign Scientist Fellowship at the Pennsylvania State University April to August 1967. Although some visits were prevented by illness, Runcorn also visited colleagues at many universities and research institutions across the USA, including Bowling Green State University, Ohio, the University of North Carolina, Boeing Scientific Research Laboratories and the Jet Propulsion Laboratory.

H.83-H.85 Correspondence *re* arrangements, February 1966 - June 1969.
3 folders.

H.86 Application form for Senior Foreign Scientist Fellowship, lecture programme, expenses reclaim forms.

H.87 Correspondence and papers *re* American Geophysical Union meeting (which Runcorn was unable to attend).

H.88 Notes on palaeomagnetic samples and programme of Conference of Principal Investigators for Lunar Samples.

Visits and conferences

- H.89-H.92** **Royal Astronomical Society geophysical discussion on 'Meteorite Craters', London, 23 February 1968**
- Runcorn was one of the organisers of the discussion.
- H.89-H.91 Correspondence *re* arrangements, December 1967 - March 1968.
3 folders.
- H.92 Notes and papers.
- H.93** **Visit to the Netherlands, 11-15 March 1968**
- Runcorn visited the Royal Meteorological Institute of the Netherlands and the Rijksuniversiteit in Utrecht where he spoke on Convection in Geophysics.
- Correspondence *re* arrangements.
- H.94-H.96** **Royal Astronomical Society Meeting on 'Lunar and Planetary Exploration', London, 29 March 1968**
- Runcorn arranged the programme of the meeting and spoke on 'Convection in the interior of the Moon'.
- H.94, H.95 Correspondence *re* arrangements, December 1967- March 1968.
2 folders.
- H.96 Provisional and final programmes, notes.
- H.97-H.101** **NATO Advanced Study Institute on 'Palaeogeophysics', University of Newcastle upon Tyne, 1-6 April 1968**
- Runcorn was one of the organisers of the meeting.
- See E.133 for publication of proceedings.

Visits and conferences

- H.97, H.98 Correspondence *re* arrangements and the publication of the proceedings. September 1967 - October 1970.
2 folders.
- H.100 Draft notes for honorary degree ceremony held during the Study Institute; photograph.
- H.101 Report of the proceedings, titled *Palaeogeophysics*.
- H.102-H.104 Royal Astronomical Society Meeting on 'The Lunar Surface', London, 29 November 1968**
Runcorn was one of the organisers of the meeting and spoke on 'Shape and origin of the lunar surface'.
- H.102, H.103 Correspondence *re* arrangements, May-December 1968.
2 folders
- H.104 Draft and final programme, copy of article and notes.
- H.105 Visit to Copenhagen, Denmark, 1-6 December 1968**
Runcorn visited colleagues at the Niels Bohr Institute, the Institute of Geology, the Institute of Geophysics (University of Copenhagen), the Geodetic Institute and the Greenland Geological Survey. He spoke on convection and continental drift at 'Professor Jensen's Institute'.
1 typescript page of report.
- H.106, H.107 Royal Astronomical Society geophysical discussion on 'The Chandlerian Nutation', 24 January 1969**
Runcorn organised the discussion and gave a lecture (title not given).
- H.106 Correspondence *re* arrangements.

Visits and conferences

H.107 Draft programme and notes.

H.108, H.109 Royal Society Discussion on 'The Red Sea', 27-29 March 1969

Runcorn was one of the chairmen of the discussion.

H.108 Correspondence *re* arrangements.

H.109 Programme and invitation.

H.110, H.111 Visit to the Netherlands, 28 March 1969

Runcorn was awarded an honorary degree by the University of Utrecht. He also lectured on convection currents in the mantle and magnetic fields of the planets.

H.110 Correspondence *re* arrangements.

H.111 Invitation, photographs of the ceremony, typescript of speeches and other notes in Dutch (including the programme).

H.112-H.114 Institute of Physics Conference on 'Fluid Mechanics in Relation to Natural Phenomena', University of Newcastle upon Tyne, 14-18 April 1969

Runcorn was one of the organisers of the conference.

H.112 Correspondence *re* arrangements.

H.113 Draft and final programmes.

H.114 List of participants and lecture abstracts.

Visits and conferences

- H.115, H.116** **Royal Astronomical Society meeting on 'Planetary Science', London, 14 November 1969**
- H.115 Correspondence *re* arrangements.
- H.116 List of participants, note on discussion.
- H.117-H.120** **NATO Advanced Study Institute on 'The Moon and the Planets', University of Newcastle upon Tyne, 9-16 April 1970**
- Runcorn was one of the organisers of the meeting.
- H.117, H.118 Correspondence *re* arrangements, December 1969 - October 1970.
 2 folders.
- H.119 Provisional programme, general information leaflet and NATO Advanced Study Institutes programme for 1970.
- H.120 Final programme and abstract of the papers delivered.
- H.121, H.122** **Visit to Italy, 27 September-2 October 1970**
- Runcorn visited colleagues in Bologna, Venice, the University of Padua, the Vatican Observatory at Castel Gandolfo and the European Space Research Organisation Research Institute in Rome, He lectured at the University of Bologna on 'The interior of terrestrial Planets' and 'Planetary magnetic fields'.
- H.121 Correspondence *re* arrangements, June - December 1970.
- H.122 Notes of expenses; photograph of Runcorn lecturing.

Visits and conferences

- H.123-H.125** **Visit to Greece, 1-6 November 1970**
- Runcorn had first planned to visit Greece two years earlier but had to postpone this visit. In 1970 he went as a member of a NATO Scientific Grants Panel. He visited colleagues at Patras and spoke on 'Continental drift' and 'The Moon and the study of the Apollo samples'.
- H.123, H.124 Correspondence *re* arrangements, May 1968 - March 1971.
2 folders.
- H.125 Programme of seminars planned for 1969 and report of the visit.
- H.126-H.131** **1st European Earth and Planetary Physics Colloquium, Reading, Berkshire, 30 March - 2 April 1971**
- Runcorn chaired the organising committee of the colloquium.
- H.126-H.128 Correspondence *re* arrangements, May 1970 - November 1971.
3 folders.
- H.129 Material relating to the organisation of the meetings present and future.
- H.130 Provisional programme and list of participants.
- H.131 Abstracts.
- H.132-H.134** **Visit to the USA and Canada, 17 June - August 1971**
- Runcorn attended the 14th Plenary Meeting of the Committee on Space Research (COSPAR) in Seattle from 17 June-2 July. (See G.12, G.13). He then visited colleagues at various universities and research institutions in California and Canada.
- H.132, H.133 Correspondence *re* arrangements, May-September 1970.
2 folders.

Visits and conferences

- H.134 Travel papers.
- H.135-H.137 Conference on Lunar Geophysics, Lunar Science Institute, Houston, Texas, October 1971**
- Runcorn spoke on 'The shape of the Moon and internal dynamics processes'. He also attended a meeting of the magnetic field team of the NASA 'Grand Tour of the Outer Planets' group. Runcorn also lectured at the University of Arizona on continental drift and visited colleagues at various universities and research institutions in California and the south west of the US.
- H.135 Correspondence *re* arrangements, July 1971-January 1972.
- H.136 Programme and provisional list of participants.
- H.137 List of participants.
- H.138-H.142 American Association for the Advancement of Science Meeting, Philadelphia, 27-29 December 1971 and 3rd Lunar Science Conference, Houston, 10-13 January 1972**
- At the AAAS meeting Runcorn spoke on 'The Earth's rotation and tidal friction' and 'The thermal history of the Earth and Moon'.
- Following the meetings he visited the Canadian Department of Energy, Mines and Resources in Ottawa and spoke on 'The magnetic properties of the Apollo samples and the Moon's ancient magnetic field' and 'The figure and gravity field of the Moon'. Runcorn also visited colleagues at universities and research institutions in Michigan and Florida.
- H.138, H.139 Correspondence *re* arrangements, February 1971 - February 1972.
- 2 folders.
- H.140 Programme of the AAAS Section on Geology and Geography meeting on 'The Early History of the Earth and Moon Symposium' with presentation abstract.

Visits and conferences

- H.141 Abstract of Runcorn's lecture 'The shape of the Moon'; report on his visit; 'Mariner Mars 1971' status bulletin; etc.
- H.142 Background material.
- H.143, H.144 Royal Astronomical Society meeting on 'Geomagnetic and Planetary Dynamos', London, 11 February 1972**
- Runcorn organised the meeting and spoke on 'Lunar and Jovian dynamos'.
- H.143 Correspondence *re* arrangements, October 1971 - January 1972.
- H.144 Programme and list of participants.
- H.145-H.153 Lunar Science Institute conference on 'High Pressure Physics and Planetary Interiors', Houston, Texas, 1-3 March 1972 and International Conference on the Core Mantle Interface, Melbourne, Florida, 7-9 March 1972**
- Runcorn chaired the Lunar Science Institute conference and spoke on 'Magnetic fields as evidence of the internal constitution of planets'. At the International Conference on the Core Mantle Interface, Runcorn spoke on 'Core-Mantle coupling and the Earth's rotation'. He also lectured at Brooklyn College on continental drift and visited Princeton and Tulane universities.
- H.145-H.149 Correspondence *re* arrangements for both conferences and publication of the proceedings. Includes some abstracts. January 1971 - April 1972.
- 5 folders.
- H.150, H.151 High Pressure Physics and Planetary Interiors conference.
- H.150 Application forms and provisional and final list of participants.
- H.151 Programme and abstracts. Also includes a brochure on the Lunar Science Institute.

Visits and conferences

- H.152, H.153 International Conference on the Core Mantle Interface.
- H.152 General conference information.
- H.153 Provisional and final programmes with abstracts (including Runcorn's paper).
- H.154, H.155 Royal Society meeting on 'Polar Orbit Satellite around the Moon', London, 23 March 1972**
- Runcorn organised the meeting.
- H.154 Correspondence *re* arrangements, March-April 1972.
- H.155 List of colleagues contacted and (?) abstract from P.C Hedgecock on 'Magnetic field measurements in the projected Lunar Polar Orbiter'.
- H.156-H.158 Royal Astronomical Society meeting on 'Plasmas in the Solar System', London, 24 March 1972**
- Runcorn organised and chaired the meeting.
- H.156, H.157 Correspondence *re* arrangements; abstracts. October 1971 - August 1972.
2 folders.
- H.158 Provisional and final programme and lecture abstracts.
- H.159-H.165 NATO Advanced Study Institute on 'Implication for Earth Sciences of Continental Drift', University of Newcastle upon Tyne, 10-14 April 1972**
- Runcorn organised the meeting and spoke on 'Plate tectonics: geometry or geophysics'.

Visits and conferences

- H.159-H.161 Correspondence *re* arrangements and publication of the proceedings, August 1971 - June 1974.
3 folders.
- H.162 Information on the meeting and provisional list of participants.
- H.163 Final list of participants.
- H.164 Provisional and final programmes with abstracts.
- H.165 Review of the meeting proceedings 'Implication for Earth Sciences of Continental Drift'.
- H.166-H.172 Visit to the USA, May-September 1972**
- Runcorn spent five months at the Lunar Science Institute in Houston as a visiting scientist. There he attended a 'Lunar Polar Orbiter' meeting on 31 August 1972. He also made monthly visits to the Jet Propulsion Laboratory in California and attended the NASA post-Apollo meeting in California in early July. While in the US Runcorn visited and lectured at various universities and research institutions.
- Runcorn also attended a conference in Canada (see H.173-H.175).
- H.166-H.168 Correspondence *re* arrangements, August 1971-May 1973.
3 folders.
- H.169 Agenda for the Lunar Polar Orbiter meeting.
- H.170 List of participants at La Jolla Summer Study meeting.
- H.171 Travel documents.
- H.172 Copy of newspaper clipping and purchase order for a pocket calculator.

Visits and conferences

- H.173-H.175** **24th International Geological Congress, Montreal, Canada, 21-29 August 1972**
- Runcorn spoke on 'Further development in the interpretation of the Geoid' and 'The Geoid and its relationship to mantle convection'. He also attended the 9th Annual Symposium in Geophysical Theory and Computers (14-31 August 1972).
- H.173 Correspondence and papers *re* arrangements, December 1970-January 1973.
- Includes abstract by Runcorn 'Magnetism of Moon rock'.
- H.174 Provisional programmes and Runcorn's abstracts.
- H.175 Final programme.
- H.176-H.180** **Visit to South Africa and Rhodesia, October 1972**
- Runcorn had planned to go to South Africa to deliver the 13th Alex L. du Toit Memorial Lecture of the Geological Society of South Africa in autumn 1971 but had to postpone the visit to 1972.
- Runcorn gave the du Toit Lecture on 'Continental drift and our wandering continents: controversy and vindication over sixty years'. He also visited colleagues at universities and research institutions in Marshalltown, Durban, Johannesburg, Cape Town in South Africa, and Salisbury in Rhodesia.
- For the text of Runcorn's du Toit lecture see F.1, F.2.
- H.176-H.179 Correspondence *re* arrangements, sample collection and research, December 1968 - November 1973.
- 4 folders.
- H.180 Provisional programme for the 1971 visit and programme of a visit to St Helena Gold Mines Limited, 26 May 1972.

Visits and conferences

H.181-H.183

Visit to the USA, January 1973

Runcorn began the visit lecturing on continental drift at Brown University (4 January). He then participated in conferences on 'Geophysics of Planets', 10-12 January and 'Lunar Dynamics and Observational Coordinate Systems', Lunar Science Institute, Houston, Texas, 15-17 January. He also spoke on 'Continental drift', the 'Geophysicist's evolving view of the Earth and the 'History of the Earth's rotation' in the 33rd Annual Bownocker Lectures of Ohio State University, 18-19 January.

H.181, H.182

Correspondence and papers, May 1972 - April 1973.

2 folders.

H.183

Programme of the Lunar Dynamics conference and of the Bownocker lectures; abstract for lecture.

H.184-H.186

Royal Society Copernicus Celebrations, London, 25-26 January 1973

Runcorn organised an exhibition on planetary magnetism for the occasion and spoke on 'The Moon'.

H.184, H.185

Correspondence *re* arrangements, particularly of the exhibition, January 1972 - February 1973.

2 folders.

H.186

Abstract of Runcorn's lecture 'The Moon' and brief description of the exhibition.

H.187-H.189

4th Lunar Science Conference, Lunar Science Institute, Houston, Texas, 5-8 March 1973

See also E.145, E.146.

Runcorn spoke on 'The implications of the magnetic and mechanical properties of the Moon'. He also visited Wayne State University in Detroit, Pennsylvania State University, the University of Illinois and the University of Pittsburgh.

H.187, H.188

Correspondence *re* arrangements, September 1972-March 1973.

2 folders.

Visits and conferences

- H.189 Abstract of Runcorn's lecture, paper *re* publication of lecture.
- H.190 Royal Society meeting on 'New technological developments of concern to Earth scientists', London, 26-30 March 1973**
- This planned conference never materialised when Runcorn failed to secure NATO support for the project.
- Correspondence *re* organisation and provisional arrangements, October 1972 - January 1973.
- H.191, H.192 Visit to Greece, (?) May 1973**
- Runcorn had first planned the visit for 1971.
- Correspondence *re* arrangements, September 1971 - December 1973.
- 2 folders.
- H.193 Royal Astronomical Society discussion on 'Mantle Plumes: Myth or Mechanism', London, 11 May 1973**
- Runcorn organised the meeting.
- Correspondence *re* arrangements, December 1972 - April 1973.
- H.194-H.197 Visit to USA and Canada, July and September 1973**
- Runcorn made an initial visit to the USA in July and then flew to Australia in August (see below H.198-H.208).
- In September he returned from Australia to the USA and Canada. In the US he attended the Gordon Conference on 'Solid State Geophysics' in Wolfeboro, New Hampshire, 30 July - 3 August 1973. He chaired a panel discussion and spoke on 'Convection in planetary interiors: a 20th century view.' He also visited a number of other universities and the National Science Foundation in Washington, where he spoke on 'Experiments on ocean telegraph cables'. In Canada he visited and lectured at the University of Western Ontario.

Visits and conferences

- H.194-H.196 Correspondence *re* arrangements, May 1972-November 1973.
3 folders
- H.197 Programme of Gordon conference, list of participants etc.
- H.198-H.208 Visit to Australia, August 1973**
- Runcorn visited Australia for the 15th International Astronomical Union General Assembly (see also G.157), during which he spoke at a meeting on 'The origins of the Moon and satellites' in Sydney, 21-30 August 1973. Prior to the IAU General Assembly he attended the 3rd International Gondwana Symposium in Canberra 6-11 August 1973.
- Runcorn acted as chairman of the organising committee of the IAU meeting on 'The origins of the Moon and satellites' and spoke on 'Early magnetic fields in the Solar System'. He also visited colleagues and lectured at Macquarie University, North Ryde, New South Wales, the University of Sydney and the University of Melbourne.
- H.198, H.199 3rd International Gondwana Symposium.
- H.198 Correspondence *re* arrangements, July-October 1973.
- H.199 Notes for participants; lists of expenses.
- H.200-H.208 International Astronomical Union meeting on 'The origins of the Moon and satellites'.
- H.200-H.204 Correspondence *re* arrangements and publication of the IAU *Proceedings*, May 1972- March 1974.
5 folders
- H.205 Preliminary and final programme; Runcorn's programme of visit.
- H.206, H.207 Abstracts.
2 folders.

Visits and conferences

- H.208 Miscellaneous background material.
- H.209 Visit to the Netherlands, November 1973**
- Runcorn visited the Royal Meteorological Institute of the Netherlands.
Brief correspondence *re* arrangements, November 1973.
- H.210-H.216 Visit to the USA, 28 November - 1 December 1973**
- Runcorn planned to attend an international colloquium on Mars in Pasadena but had to cancel. He also planned to visit colleagues at universities and research institutions in California but it is not clear whether he did make these visits.
- H.210-H.213 Correspondence *re* arrangements, February 1972-December 1973.
4 folders
- H.214 Minutes of the organising committee of the colloquium and note of presentation for the conference.
- H.215 Preliminary programme.
- H.216 Brochure produced for the Mars colloquium 'The Photomosaic Globe of Mars'.
- H.217-H.223 Interdisciplinary Winter Conference on 'Biological Clocks and Changes in the Earth's Rotation Geophysical and Astronomical Consequences', University of Newcastle upon Tyne, 8-10 January 1974**
- Runcorn organised the meeting and spoke on 'Palaeontological and astronomical observations on the rotational history of the Earth and Moon'.
- H.217, H.218 Correspondence *re* arrangements and publication of the proceedings, October 1973 - July 1977.
2 folders.

Visits and conferences

- H.219 Information notice etc.
-
- H.220 Final programme and list of participants.
- H.221, H.222 Abstracts of papers delivered.
2 folders.
- H.223 Report of the proceedings 'Growth Rhythms and the History of the Earth's Rotation'.
- H.223A Visit to the Netherlands, 30 January 1974**
- Runcorn appears to have visited the University of Groningen.
1 letter only, January 1974.
- H.224-H.227 Visit to the USA, March - April 1974**
- Runcorn attended the 5th Lunar Science Conference, Houston, Texas, 18-22 March. He gave papers on 'Internal dynamics of the Moon' and 'Magnetic properties of Apollo 16 and 17 Rocks - Interim Report' (see also E.149, E.152, E.153).
- He was to attend the IAU Group on Lunar Nomenclature meeting in Washington D.C., 14-15 March but the meeting was cancelled. Other visits were also cancelled and in the event Runcorn only visited the California Institute of Technology and the University of California.
- H.224-H.226 Correspondence *re* arrangements, July 1973 - April 1974.
3 folders.
- H.227 Abstract of Runcorn's paper delivered at the 5th Lunar conference and copy of the Lunar Science Information Bulletin.

Visits and conferences

- H.228-H.232** **NATO Advanced Study Institute on 'Petrophysics: Physical and Chemical Processes of Minerals', University of Newcastle upon Tyne, 22-26 April 1974**
- Runcorn was the organiser of the meeting. He spoke on 'Bullen P-K Relationship'
- H.228, H.229 Correspondence *re* arrangements, September 1973-July 1974.
- 2 folders
- H.230, H.231 Papers *re* arrangements.
- 2 folders.
- H.232 Collection of abstracts and preliminary and final list of participants.
- H.233-H.239** **Visit to the USA and Canada, June - August 1974**
- Runcorn intended to attend the Takesi Nagata conference, University of Pittsburgh, 3-4 June and to lecture at various universities and research institutions on the east coast. But he was subsequently unable to go until later in the month. He was then able to attend an International Astronomical Union meeting in Ottawa, Canada, 27-29 June and in July and August he stayed at the Marine Biomedical Institute in Galveston, studying moonquakes.
- While in the US he spoke on 'Plate tectonics, mantle plumes and the mechanism of continental drift' at Texaco Research and Technical Department and visited Princeton, the University of Rhode Island, the US Naval Observatory, Pennsylvania State University, and the University of Arizona.
- H.233-H.237 Correspondence *re* arrangements, February 1974 - February 1975.
- 5 folders.
- H.238 Programme of the Nagata conference and other material *re* meetings in early June 1974.
- H.239 Miscellaneous material.

Visits and conferences

H.240 Visit to the USA, 1-12 October 1974

Runcorn appears to have attended the 8th Geodesy/Solid Earth and Open Physics Research conference at Ohio State University, 10-11 October and the Fall Earth Science Colloquium at Lamont, 4 October.

Brief correspondence and papers *re* arrangements, September-October 1974.

H.241 Lunar Science Institute meeting on 'Origin and Evolution of the Lunar Regolith', Houston, Texas, 13-15 November 1974.

Announcement of the meeting only. August 1974.

H.242, H.243 Visit to the Netherlands, January 1975

Runcorn had planned to visit in November 1974 but was unable to do so and had to rearrange for the end of January. He visited the Solid State Physics Laboratory at the University of Groningen and other universities and research institutions.

H.242 Correspondence *re* arrangements, October 1974 - February 1975.

H.243 Programme of Runcorn's visit to Groningen.

H.244-H.246 Visit to Italy and Greece, 10-28 February 1975

Runcorn visited colleagues at universities and research institutions in Pisa, Rome and Naples (where he spoke on 'Continental drift and mantle convection' and 'Lunar palaeomagnetism'). In Greece he visited the University of Patras where he gave two lectures, the University of Athens where he spoke on 'Continental drift' and the Academy of Athens where he spoke on 'The Moon'.

H.244, H.245 Correspondence *re* arrangements, December 1973-March 1975.

2 folders.

H.246 Report of the visit and notes.

Visits and conferences

H.247-H.250

Visit to the USA, March - April 1975

Runcorn attended the 6th Lunar Science conference, Houston, Texas, 17-21 March 1975 (see also E.158, E.160-E.162) and the Inter-Union Commission for the Study of the Moon meeting, Houston, 18-19 March 1975.

He was then a Visiting Professor at the University of California La Jolla during which period he visited universities and research institutions in Arizona and California.

H.247-H.249

Correspondence *re* arrangements, August 1974 - September 1975.

3 folders.

H.250

Grant application forms to the William Waldorf Astor Foundation and report on the visit to the Astor Foundation.

H.251-H.281

Royal Society Discussion Meeting on 'The Moon-A New Appraisal from Space Missions and Laboratory Analyses', London, 9-12 June 1975

Runcorn organised the meeting and the publication of the meeting's proceedings. He spoke on 'The interpretation of the lunar potential fields'.

H.251-H.262

Correspondence *re* arrangements and publication of proceedings, May 1973- January 1978.

12 folders.

H.263

Correspondence *re* arrangements of the Session 1 'The Accumulation of the Moon'.

H.264, H.265

'The Earliest Evolution of the Crust': material for Session 2 so labelled by Runcorn.

H.264

Brief correspondence *re* arrangements of Session 2.

H.265

Abstract of papers delivered at Session 2.

Visits and conferences

H.266, H.267	'The Bombardment of the Moon': material for session 4 so labelled by Runcorn.
H.266	Correspondence <i>re</i> arrangements of Session 4.
H.267	Abstract of papers delivered at Session 4.
H.268	Correspondence <i>re</i> arrangements of sessions 4 and 5.
H.269	Abstract of papers (?)to be delivered at Session 5.
H.270	Draft programme.
H.271	Final programme.
H.272	List of participants.
H.273, H.274	Abstracts. 2 folders
H.275-H.279	Publication of the proceedings.
H.275	Draft for the preface, introduction and first few chapters etc.
H.276-H.278	Papers not accepted for publication. 3 folders.
H.279	Report of the proceedings 'The Moon - a new appraisal from Space Missions and Laboratory Analyses'.

Visits and conferences

- H.280 Miscellaneous notes.
- H.281 Miscellaneous typescripts including summary of a discussion between Runcorn and K.A. Goettel on gas spheres and alternative hypotheses of planetary formation.
- H.282, H.283 International Astronomical Union 1st International Colloquium on Mercury, Pasadena, 25-27 June 1975**
- Runcorn spoke on 'A proposed state of the interior' and was a member of the panel for the 'Implication for Other Planets' session.
- H.282 Correspondence *re* arrangements, February-July 1975.
- H.283 Travel documents; programme.
- H.284, H.285 Visit to the USA, July - August 1975**
- Runcorn spent the summer at the University of California Los Angeles.
- H.284 Correspondence *re* arrangements, July - October 1975.
- H.285 Lecture programme for the summer of 1975, etc.
- H.286-H.288 Joint Geological Society of London, Mineralogical Society and Royal Astronomical Society meeting on 'Meteorite Research', London, 31 October 1975**
- H.286 Correspondence *re* arrangements, February -March 1975.
- H.287 Programme.
- H.288 Abstracts.

Visits and conferences

H.289-H.291

Visit to the USA, November 1975

Runcorn spoke on 'Geophysical interpretation of model ages of Mare basalts' at a Lunar Science Institute meeting on 'Origins of Mare Basalts', Houston, Texas. He also lectured at New York University on 'Convection in the Earth's interior' and visited the State University of New York, MIT, Harvard and Yale.

H.289

Correspondence *re* arrangements, October -December 1975.

H.290

Abstract of Runcorn's paper delivered at the Lunar Science meeting and programme of the meeting.

H.291

Paper from the Lunar Science Institute Data Centre titled 'Lunar and Planetary Science Information Resources'.

H.292

Visit to the Netherlands, 15-19 December 1975

Runcorn had planned to visit the Netherlands in October but the visit had to be rearranged for December.

Correspondence *re* arrangements, October - December 1975.

H.293

Visit to Denmark, January 1976

Runcorn visited the University of Copenhagen and the Technical University of Denmark. He may also have attended the Danish Geophysical Society meeting in Copenhagen.

Correspondence *re* arrangements, September-November 1975.

H.294-H.307

Visit to the USA and Canada, March 1976

Runcorn's principal commitment was the 7th Lunar Science conference on 'Recent Activity in the Moon', Houston, Texas, 15-19 March 1976. This was initially planned for 1975 but was postponed to March 1976. Runcorn was one of the organisers, chaired the session on 'Observation' and spoke on 'Correlation between the 3 phenomena and the circular Mare and a physical explanation'. See also E.164, E.166.

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Visits and conferences

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- He also visited the NASA Ames Research Centre in California where he spoke on 'Lunar Magnetism and Thermal History' and the Geological Survey in Denver where he spoke on lunar magnetism. He also visited MIT, the University of California and Stanford University. In Canada he lectured at the government Department of Energy, Mines and Resources in Ottawa, and visited the Universities of Western Ontario, Toronto and McGill.
- H.294-H.300 Correspondence *re* arrangements and publication of proceedings of Lunar Science meeting, April 1974 - May 1976.
7 folders.
- H.301 Provisional and final programmes.
- H.302 List of participants.
- H.303, H.304 Abstracts for the 1975 and 1976 meetings.
2 folders
- H.305 Copies of the Lunar Science Information Bulletin for December 1975 and February 1976.
- H.306 Miscellaneous manuscript notes.
- H.307 Application forms for the conference, travel voucher for the seminar at the University of California and miscellaneous correspondence.
- H.308-H.322 NATO Advanced Study Institute on 'The Origin of the Solar System', University of Newcastle upon Tyne, 29 March - 9 April 1976**
- Runcorn organised the meeting. He chaired two sessions and spoke on 'The physiochemical evidence on the early Moon' and 'Evidence for magnetic fields in the early Solar System'.
- H.308-H.311 Correspondence *re* arrangements and publication of proceedings, April 1975 - March 1981.
4 folders.

Visits and conferences

- H.312 Provisional and final programmes.
- H.313 List of participants.
- H.314, H.315 Abstracts.
2 folders.
- H.316, H.317 Information, notices etc.
2 folders.
- H.318-H.322 Papers *re* publication of the proceedings.
- H.318 Publishing contract for the proceedings.
- H.319, H.320 Chapter drafts etc.
2 folders.
- H.321 Miscellaneous drafts.

Includes a satirical piece by an unknown writer titled: 'The lesson for today, the second Tuesday before Easter, is taken from the first book of Runcorn, called GENA TOSIS, beginning at Chapter 1, verse 1 '.
- H.322 Photographs.
- H.323 Visit to the USA, June 1976**

Runcorn visited the USA in connection with a meeting of COSPAR in Philadelphia (see G.57-G.59). He went on to visit Philips Petroleum Company in Bartlesville, Oklahoma and spoke on 'Paleomagnetism, paleoclimatology and continental drift'.

Correspondence *re* arrangements, June-July 1976.

Also includes seminar programme of Philips Petroleum Company.

Visits and conferences

- H.324-H.330** **European Geophysical Society meeting, Amsterdam, The Netherlands, 7-10 September 1976**
- Runcorn organised the 'Kinematics and dynamics of late tectonics' symposium and spoke on 'The interpretation of the geoid in terms of convection' and 'The mechanism of plate tectonics: mantle convection currents, plumes or gravity slidings?'
- H.324-H.326 Correspondence *re* arrangements, November 1975-September 1976.
- 3 folders.
- H.327 Provisional and final programmes.
- H.328 Abstracts.
- H.329 European Geophysical Society newsletters for December 1975 and April 1976.
- H.330 Miscellaneous material.
- H.331-H.333** **Royal Astronomical Society meeting on 'Solid State Physics and Geophysics', 12 November 1976**
- Runcorn was one of the organisers of the meeting.
- H.331, H.332 Correspondence *re* arrangements, October 1976 - March 1977.
- 2 folders.
- H.333 Provisional and final programmes; miscellaneous notes.
- H.334-H.343** **Visit to the USA, 14 November - 10 December 1976**
- Runcorn attended the conference on 'Comparisons of Mercury and the Moon' at the Lunar Science Institute, Houston, Texas, 15-17 November 1976, speaking on 'Dynamical phenomena in the interior of Mercury and the Moon'.

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Visits and conferences

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- He also attended the Western American Geophysical Union meeting in San Francisco, 2-10 December where he spoke on 'Mechanism of plate movements'.
- Runcorn visited numerous universities and research institutions in the US. At the University of Southern California he spoke on 'The mechanism of plate tectonics: gravity sliding, plumes or convections', at California State University he spoke on 'Palaeomagnetism, continental drift and plate tectonics' and 'The mechanism of plate tectonics'. At Princeton he spoke on 'Lunar magnetism'.
- H.334-H.336 Correspondence *re* arrangements and publication, April 1976 - May 1977.
3 folders.
- H.337-H.339 Comparisons of Mercury and the Moon material.
- H.337 Typescript of Runcorn's lecture 'Convection in Mercury' and collection of abstracts.
- H.338 Programme.
- H.339 Lunar Science Information Bulletin, October 1976.
- H.340-H.342 American Geophysical Union meeting material.
- H.340 Manuscript copy of Runcorn's lecture 'Mechanism of plate movements'.
- H.341 Programme.
- H.342 Leaflets containing information on the meeting.
- H.343 Miscellaneous material.

Visits and conferences

- H.344 Meeting at the Natural History Museum, London, 9 January (?)1977**
- Manuscript notes and typescript of J.C. Barton's paper 'Detection of super heavy elements by neutron multiplicity measurements'.
- H.345, H.346 Visit to the Australia and USA, 5 February - 18 March 1977**
- Runcorn attended the Carey Symposium in Tasmania from 6 February and stayed in Canberra for two more weeks. He then travelled to the USA on 1 March to attend the 8th Lunar Science conference in Houston, Texas, where he spoke on 'The early melting of the Moon' (see also D.275-D.277, E.169-E.171, E.179). He also spoke on 'Mechanism of plate motions: gravity sliding or convection' at the Florida State University and visited other universities and research institutions in Florida and Texas.
- H.345 Correspondence *re* arrangements, October 1976 - May 1977.
- H.346 Draft of Runcorn's paper and accompanying material relating to its publication.
- H.347-H.350 UK Geophysical Assembly, University of Edinburgh, 12-15 April 1977**
- Runcorn spoke on 'A geophysicist's approach to the Moon and planets'.
- H.347 Correspondence *re* arrangements, November 1976-April 1977.
- H.348 Programme and abstracts.
- H.349 Collection of abstracts.
- H.350 Miscellaneous material.

Visits and conferences

H.351-H.355

Visit to China, 18 April-8 May 1977

Runcorn travelled to China with colleagues W.B. Bullerwell and D.P. McKenzie. They visited the Institute of Physics and the Institute of Geology in Peking, Peking University, the Institute of Palaeontology in Nanking and Nanking University.

For copy of lecture delivered by Runcorn see F.8.

H.351

Correspondence post-visit *re* the report of the visit, June 1977 - February 1978.

H.352

Manuscript notes taken during the visit to China and used for report writing.

H.353

Draft report of visit by Runcorn, Bullerwell and McKenzie.

H.354

Report of the visit by Bullerwell.

Bullerwell extended his stay and visited other institutions and universities.

H.355

Annotated report of the visit to be published by the Royal Society.

H.356

Royal Society *ad hoc* meeting on 'Lithospheric Anisotropy', London, 27 May 1977

Letter *re* the meeting, programme and list of participants, May 1977.

H.357

Royal Society meeting on 'Results of the Viking Mission to Mars', 17 June 1977

Runcorn chaired the meeting.

Programme.

H.358-H.360

14th Annual Meeting of the Meteoritical Society, University of Cambridge, 24-29 July 1977

Runcorn spoke on 'Magnetism of Lunar Rocks and Meteorites'.

Visits and conferences

- H.358 Programme and general information.
- H.359 List of participants.
- H.360 Abstract of V.L. Masaitis's paper 'Extraterrestrial impact structures in the USSR'.
- H.361-H.367 Visit to the USA, August - October 1977**
- Runcorn attended the International Association of Geomagnetism and Aeronomy Assembly in Seattle, 22 August - 3 September and spoke on 'The lunar dynamo'. He also visited colleagues at universities and research institutions in California, Arizona and New York. At the Livermore Laboratory he spoke on 'Lunar evidence for superheavy elements' and attended the Science and Technology Colloquium and spoke on 'Ancient lunar magnetic field and short-lived radioactive heat source in the early Moon'. At Rockwell International he spoke on 'Heat source in the early Moon and the ancient lunar dynamo'. Runcorn spent October based at the University of California in Los Angeles.
- H.361-H.363 Correspondence *re* arrangements, loss of Runcorn's suitcase and travel insurance claims, January 1977 - October 1978.
- 3 folders.
- H.364 IAGA Assembly information.
- H.365 Announcement of Runcorn's lecture at the Science and Technology Colloquium, and abstract.
- H.366 Notice of Runcorn's lecture (with abstract) at Rockwell International.
- H.367 Travel material.

Visits and conferences

- H.368-H.371** **Visit to the USA, 1-15 December 1977**
- Runcorn attended the Luna 24 conference in Houston, Texas, 1-3 December where he spoke on 'Preliminary results of palaeointensity measurements on Luna 24 Samples' (see also E.192A). He also attended the 1977 American Geophysical Union Fall meeting in San Francisco, 5-9 December and spoke on 'The ancient lunar dynamo' and the Workshop on 'Solid Convection in the Terrestrial Planets' at Ames, California, 2-13 December where he was one of the speakers and member of the panel discussion of the 'Convection and Models of Planetary Evolution' session.
- H.368 Correspondence *re* arrangements, October 1976 - January 1978.
- H.369 Programme of the Luna 24 conference and abstract of Runcorn's lecture.
- H.370 Programme of the American Geophysical Union meeting and abstract of Runcorn's lecture.
- H.371 Programme and list of participants of the meeting on Solid Convection in the Terrestrial Planets.
- H.372, H.373** **Mineralogical Society Anniversary meeting, London, 5-7 January 1978**
- Runcorn chaired a session.
- H.372 Letter; list of exhibitors.
- H.373 Programme and abstract of Edward R.D Scott's paper 'Evidence for Chemical Fractionation During Condensation of the Solar Nebula'.
- H.374-H.378** **European Workshop on Space Techniques for Solid Earth Physics, Oceanography, Navigation and Geodesy, Schloss Elmau, Germany, 16-21 January 1978**
- Runcorn chaired the Earth Magnetism session.
- H.374 Correspondence *re* arrangements, November 1977 - May 1979.

Visits and conferences

- H.375 List of participants.
- H.376 Information sheet (2nd announcement).
- H.377 Report of Earth Magnetism panel and summary recommendation.
- H.378 Report of the Tectonics panel.
- H.379-H.385 Visit to the USA, March 1978**
- Runcorn attended a conference on Super Heavy Elements at the Texas Technical University, 9-11 March. He also attended the 9th Lunar Science conference in Houston, Texas, 13-17 March where he spoke on 'Superheavy elements in the primeval Moon?' He visited the University of Puerto Rico, Tulane University, the University of Chicago and Florida State University, where he presented a colloquium entitled 'Lunar palaeomagnetism and evolution and the possible existence of superheavy elements'.
- H.379, H.380 Correspondence *re* arrangements, January 1977 - July 1978.
2 folders.
- H.381 Programme of the 9th Lunar Science conference.
- H.382 Abstract and full paper of Runcorn's lecture "Superheavy elements in the primeval Moon?' Also includes lecture application forms.
- H.383 Information sheets.
- H.384 Draft of a lecture on 'Lunar thermal history dilemma'.
- H.385 Miscellaneous manuscript notes and typescript titled 'The effects of dissipation in the Moon on the lunar physical librations'.

Visits and conferences

H.386, H.387

Visit to the USA, 13-21 April 1978

Runcorn visited the State University of New York at Binghamton, Tulane University, the University of Chicago, Florida State University, Purdue University. He also appears to have attended the American Geophysical Union symposium.

Correspondence *re* arrangements and expenses, February 1978 - May 1981.

2 folders.

H.388-H.391

International Astronomical Union Symposium 82 'Time and the Earth's Rotation', Cadiz, Spain, 8-12 May 1978

Runcorn spoke at the symposium on 'The geophysical interpretation of changes in the length of the day and polar motion'. He also lectured at the Universidad Complutense de Madrid on 'Palaeomagnetism and continental drift' and at the Institute of Astrophysics of Andalucia on 'Planetary magnetism'.

H.388, H.389

Correspondence *re* arrangements, October 1977 - July 1978.

2 folders.

H.390

Draft and final version of Runcorn's lecture 'The geophysical interpretation of changes in the length of the day and polar motion'.

H.391

Grant application forms.

H.392, H.393

Visit to Finland, (?) 3-19 July 1978

Runcorn visited Finland to collect palaeomagnetic rocks.

H.392

Brief correspondence *re* arrangements, April-July 1978.

H.393

Map of pre-Quaternary rock of Finland, miscellaneous notes and itinerary.

Visits and conferences

H.394-H.400

Visit to the USA and Canada, 26 July - 5 September 1978

Runcorn attended the 41st Annual Meeting of the Meteoritical Society, Sudbury, Canada, 14-18 August 1978 and the International Conference on Geochronology, Cosmochronology and Isotope Geology, Boulder, Colorado, 20-25 August. He also visited many universities and research institutions in Canada and the USA. At the Department of Energy, Mines and Resources in Canada he spoke on 'Possible existence of superheavy elements in the early Solar System'.

He had planned to stay until the end of September to lecture and visit colleagues but had to cancel to attend a meeting of the European Space Agency in Paris, 18 September.

H.394-H.396

Correspondence *re* arrangements, February 1978 - April 1979.

3 folders.

H. 397, H.398

41st Annual Meeting of the Meteoritical Society.

H.397

Abstracts and programme of the conference, including abstract of Runcorn's lecture.

H.398

General information sheet and map of Sudbury.

H.399

Programme of the September seminar on Solar Variability, Boulder.

H.400

Miscellaneous material.

H.401-H.411

Visit to the USA, 3 - 21 November 1978

Runcorn attended a Lunar Science Institute conference on 'Origins of Planetary Magnetism', Houston, Texas, 8-11 November. He was a member of the organising committee of the conference and spoke on 'The ancient lunar dynamo'. He also lectured at Chevron Oil Field Research on 'Lunar palaeomagnetism and superheavy elements in the ancient Moon' and visited colleagues at universities and research institutions in California and the East Coast.

Visits and conferences

- H.401-H.404 Correspondence *re* arrangements and publication of the proceedings. August 1976-May 1979.
4 folders.
- H.405 Provisional and final programme.
- H.406 Runcorn's lecture on 'The ancient lunar dynamo', references for the 'Superheavy elements in the primeval Moon', and copy of D.W. Collinson's lecture 'On the possibility of using lunar fines to determine the intensity of the ancient magnetic field of the Moon'.
- H.407 Abstract application form, transfer of copyright agreement form etc.
- H.408 Agenda, minutes and schedule of the Planetary Magnetism Programme Committee meetings.
- H.409 Copies of general announcements concerning the conference.
- H.410 Itinerary of Runcorn's visit.
- H.411 Miscellaneous material.
- H.412 **Mineralogical Society meeting on 'Russian Lunar Missions', London, 12 January 1979**

Runcorn proposed the meeting.

Brief correspondence *re* arrangements, May-June 1978.
- H.413-H.415 **Colloquium on 'Lunar Palaeomagnetism and Superheavy Elements in the Early Moon', University of Pittsburgh, 1 March 1979**

Runcorn offered to speak on 'Possible existence of superheavy elements in the early Solar System' and 'On the origin of lunar palaeomagnetism'.

Visits and conferences

- H.413 Correspondence *re* arrangements, October 1978 - March 1979.
- H.414 Abstracts.
- H.415 Miscellaneous papers.
- H.416-H.421 Visit to the USA and Canada, March 1979.**
- Runcorn attended the Asteroid and Planets X conference, Tucson, Arizona, 6-10 March 1979 (speaking on 'Superheavy elements and early melting in the Solar System'), and the 10th Lunar and Planetary Science Conference, Houston, Texas, 18-23 March 1979 (speaking on 'An iron core in the Moon generating an early magnetic field'). He also lectured at Carleton University in Canada and at the Carnegie-Mellon University.
- H.416 Asteroid and Planets X conference.
Correspondence *re* arrangements, May 1978 - February 1979.
- H.417-H.421 10th Lunar and Planetary Science Conference.
- H.417, H.418 Correspondence *re* arrangements, publication and scientific discussion, June 1978 - July 1979.
2 folders.
- H.419 Programme of the conference.
- H.420 Revised version and summary of Runcorn's lecture.
- H.421 Runcorn's abstract etc.

Visits and conferences

- H.422-H.437** **NATO Advanced Study Institute on 'Mechanism of Continental Drift and Plate Tectonics', University of Newcastle upon Tyne, 27 March-10 April 1979**
- Runcorn was one of the organisers of the meeting. The meeting was originally planned for April 1978 but was postponed for a year.
- H.422-H.430 Correspondence *re* arrangements and publication of proceedings, April 1977 - October 1982.
- 9 folders.
- H.431 Draft application forms to NATO Advanced Study Institutes Programme.
- H.432 Draft programme and lecture and discussion announcement posters.
- H.433 List of participants.
- H.434 Abstracts and copies of lectures.
- H.435, H.436 Material relating to the publication of the proceedings.
- 2 folders.
- H.437 Miscellaneous notes, satirical drawing of Runcorn, circular etc.
- H.438, H.439** **United Kingdom Geophysical Assembly, Southampton University, 2-5 April 1979**
- Runcorn intended to go to the meeting but was unable to attend as it clashed with the NATO Advanced Study Institute meeting described above (H.422-H.437).
- H.438 Correspondence *re* the two meetings. December 1978-January 1979.
- H.439 General information on the meeting.

Visits and conferences

- H.440-H.442** **Royal Astronomical Society meeting, Durham, 10-11 April 1979**
- Runcorn introduced the Planetary Magnetic Fields session and spoke on 'Energy sources for the lunar field'.
- H.440, H.441 Correspondence *re* arrangements, March 1978 - March 1979.
- 2 folders
- H.442 Draft programmes and programme of the April 1978 Royal Astronomical Society meeting.
- H.443-H.445** **Visit to the USA, May - June 1979**
- Runcorn attended the American Geophysical Union meeting in Washington D.C., 28 May - 1 June. He also visited colleagues at various universities and research institutions on the east coast and Illinois.
- H.443, H.444 Correspondence *re* arrangements, February-August 1979.
- 2 folders.
- H.445 Abstracts of Runcorn's lectures and notes.
- H.446** **Visit to the USA and Canada, August 1979**
- Runcorn attended the International Astronomical Union meeting in Montreal, 14-23 August 1979. He also visited colleagues at various US universities and research institutions on the east coast and California.
- Correspondence *re* arrangements, June-October 1979.
- H.447-H.450** **42nd Annual Meeting of the Meteoritical Society, Heidelberg, West Germany, 3-7 September 1979**
- H.447 Correspondence *re* arrangements, July-September 1979.

Visits and conferences

- H.448 Copies of the conference circulars, October 1978- August 1979.
- H.449 Programme.
- H.450 Information.
- H.451-H.455 Visit to the USA, November 1979**
- Runcorn attended the Lunar Highland Crust conference, Houston, Texas, 14-16 November 1978 and spoke on 'Physical processes in the formation of the Highland Shelf'. He also visited colleagues at various universities and research institutions in the USA.
- H.451, H.452 Correspondence *re* arrangements, June 1979 - April 1980.
2 folders.
- H.453 Runcorn's abstract and programme of the conference.
- H.454 General information.
- H.455 Miscellaneous material.
- H.456-H.459 Royal Astronomical Society meeting on 'Isotope Anomalies and the Possible Existence of Superheavy Elements in the Early Solar System', London, 8 February 1980**
- Runcorn was the organiser of the meeting and spoke on 'Superheavy elements as an early heat source in the Solar System'.
- H.456-H.458 Correspondence *re* arrangements, July 1979 - February 1980.
3 folders.
- H.459 Provisional and final programmes.

Visits and conferences

- H.460** **Royal Society discussion meeting on 'The Origin and Evolution of the Earth's Continental Crust', London, 21-22 February 1980**
- Programme of the conference, lecture abstract and list of participants.
- H.461** **'Climatic Variation, Facts and Causes' conference, Erice, Sicily, 9-21 March 1980**
- This was the first meeting of the International School of Climatology.
- Notice of the meeting only.
- H.462** **NATO Advanced Study Institute, University of Newcastle upon Tyne, Easter 1980**
- Runcorn applied to the NATO Advanced Study Institutes programme to organise a conference on 'Climatic Changes over Historical and Geological Time: Observation, Analysis, Theories'.
- Application to NATO Advanced Study Institutes programme.
- H.463-H.467** **Visit to the USA, March - April 1980**
- Runcorn attended the 11th Lunar and Planetary Science conference in Houston, Texas, 17-21 March and spoke on 'Lunar polar wandering' (see also E.196-E.198). He also visited colleagues in various universities and research institutions in the US.
- H.463, H.464 Correspondence *re* arrangements, October 1979 - May 1980.
- 2 folders.
- H.465 Printed copy of and manuscript notes for Runcorn's lecture.
- Includes photographs.
- H.466 Notice announcing a meeting.

Visits and conferences

- H.483 List of participants.
- H.484 Drafts and abstract of Runcorn's lecture.
- H.485-H.488 Papers by others.
- H.485 Stanley Dermott: 'The origin of planetary rings'.
- H.486 David Hughes: 'The influx of comets and asteroids to the Earth'.
- H.487 Gary Hunt: 'Atmospheres of Jupiter and Saturn'.
- H.488 Charles Yoder: 'The free librations of a dissipative Moon'.
- H.489 Abstracts.
- H.490 Report on the lectures and discussion.
- H.491 Copies of the contributions to the discussion.
- H.492 Draft introduction for the proceedings of the meeting.
- H.493 Miscellaneous material.

Visits and conferences

- H.494-H.496** **Conference on 'Multi-Rising Basins', Houston, Texas, 12-14 November 1980**
- In addition to attending this meeting, Runcorn also lectured at the Geological Survey, Virginia, on 'The mechanism of plate motions and the interpretation of the Geoid' and may have visited the University of Illinois.
- H.494 Correspondence *re* arrangements, April - October 1980.
- H.495 Provisional programme for conference on Multi-Rising Basins.
- H.496 Conference information.
- H.497-H.501** **Royal Astronomical Society meeting on 'The Earth's Rotation', London, 9 January 1981**
- Runcorn spoke on 'Geophysical interpretation of Earth rotation data'.
- H.497-H.499 Correspondence *re* arrangements, May 1980 - February 1981.
3 folders.
- H.500 Programme and list of participants.
- H.501 Abstracts and papers.
- H.502-H.504** **Sir Edward Bullard Symposium, La Jolla, California, 11-12 January 1981**
- H.502 Correspondence *re* arrangements, December-August 1980.
- H.503 Information and list of speakers.
- H.504 List of papers published.

Visits and conferences

- H.517 Draft and final programmes of the conference.
- H.518 General conference information.
- H.519 Report on the conference for NATO Advanced Study Institute programme.
- H.520 Miscellaneous manuscript notes.
- H.521-H.525 Folders, kept separate by Runcorn *re* publication of the proceedings.
- H.521 Material relating to papers to be included in the proceedings.
- H.522 Correspondence and miscellaneous notes.
- H.523 Typed introduction to the proceedings.
- H.524, H.525 Miscellaneous manuscript notes and typed texts etc.
2 folders.
- H.526-H.528 5th UK Geophysical Assembly, University of Cambridge, 6-8 April 1981**
- Runcorn spoke on 'The Geoid and mantle convection' and 'Lunar palaeomagnetism and lunar polar wandering.'
- H.526 Correspondence *re* arrangements, November 1980-May 1981.
- H.527 Conference information and list of abstracts.
- H.528 Programme of the conference.

Visits and conferences

- H.529** **Visit to France, April 1981**
- Runcorn attended the Space Science Committee of the European Science Agency meeting in Paris and took the opportunity to visit colleagues at the University of Nantes and Rennes. In Nantes he spoke on 'Mechanism of plate movements'.
- Correspondence *re* arrangements, November 1980 - March 1981.
- H.530-H.537** **1st European Union of Geoscientists meeting, Strasbourg, France, 13-16 April 1981**
- Runcorn was a member of the organising committee and chaired the meeting's Early Development of the Earth and Planets symposium.
- H.530-H.532 Correspondence *re* arrangements, October 1980 - May 1981.
- 3 folders.
- H.533 Documents *re* the foundation of the European Union of Geoscientists, including minutes of the preliminary meeting, general information on the first conference and notes on the purpose of the EGU.
- H.534 Correspondence and leaflet sent to conference participants.
- H.535 Draft and final programmes.
- H.536 Abstracts.
- H.537 Miscellaneous material.
- H.538, H.539** **International Astronomical Union/Royal Astronomical Society meeting, Bath, 14-16 April 1981**
- Runcorn was a member of the organising committee but in the event was unable to attend, as its date clashed with the 1st European Union of Geoscientists meeting (see H.530-H.537)

Visits and conferences

- H.538 Correspondence *re* arrangements, June 1980 - February 1981.
- H.539 Draft and final programmes.
- H.540 Applied Mathematics/Physics seminar, University of Manchester Institute of Science and Technology, 6 May 1981**
- Runcorn had planned to speak on 'Mantle convection: mechanism for plate movements and the explanation of the Geoid' but had to cancel his visit at the last minute.
- Correspondence *re* arrangements, December 1980 - April 1981.
- H.541-H.543 Visit to the USA, May 1981**
- Runcorn attended the American Geophysical Union Spring 1981 meeting, Baltimore, 25-29 May. He spoke on 'Lunar polar wandering'. He also visited colleagues at various universities and research institutions in Virginia and the north east.
- H.541 Correspondence *re* arrangements, March 1981-July 1981.
- H.542 Draft and final abstract of Runcorn's paper 'Lunar polar wandering'.
- H.543 Miscellaneous papers *re* arrangements.
- H.544-H.550 British Association for the Advancement of Science 50th Anniversary Meeting, York, 31 August-4 September 1981**
- Runcorn was asked to serve as President of Section A (Mathematics and Physics) for the year. He gave the Presidential Address on 'The physics of Earth and planets - a modern view'.
- H.544-H.546 Correspondence *re* arrangements, August 1980 - October 1981.
- 3 folders.

Visits and conferences

- H.547 Contents of Runcorn's folder relating to his Presidency of Section A.

Includes a list of officers of the meeting in York, agenda of the Section A committee meeting, typescript text on the role of the President and the shape of the presidential address.
- H.548 Draft and final programme.
- H.549 General conference information.
- H.550 Miscellaneous material.
- H.551-H.553 Visit to the USA, September - December 1981**
- Runcorn was Visiting Hitchcock Professor at the University of California Berkeley. He also attended the American Geophysical Union meeting, 7-11 December. He visited colleagues at various research institutions and universities in the US.
- H.551 Correspondence *re* arrangements, July 1981 - February 1982.
- H.552 Draft of joint paper with A. Stephenson and D.W Collinson on (?) lunar magnetism.
- H.553 Travel documents.
- H.554 Royal Society Discussion Meeting on 'The Case for a Cooperative European Hypervelocity Impact Facility', London, 5 October 1981**
- It is not clear whether Runcorn attended the meeting.
- One letter only, August 1981.

Visits and conferences

- H.555-H.572** **Royal Society discussion meeting on 'The Earth's Core: its Structure, Evolution and Role in Geomagnetism and Geodynamics', London, 17-18 January 1982**
- Runcorn was a joint organiser with J.A Jacobs and K.M Creer, and oversaw the publication of the proceedings. Runcorn spoke on 'The role of the core in the irregular fluctuations of the Earth's rotation and the excitation of the Chandler Wobble'.
- H.555-H.561 Correspondence *re* arrangements and publication of the proceedings. April 1980 - December 1982.
- 7 folders.
- H.562 Travel papers.
- H.563 List of participants.
- H.564 General conference information etc.
- H.565 Draft and final programmes.
- H.566 Abstracts of lectures.
- H.567 Material relating to the exhibition displayed to mark the 'Sesquicentenary of Gauss' Measurement of the Absolute Intensity of the Earth's Magnetic Field'.
- H.568 Draft and final versions of the proceedings of the Royal Society discussion meeting presentation pages and preface.
- H.569-H.571 Papers submitted for inclusion in the proceedings of the meeting.
- H.569 Draft and final versions of Runcorn's paper.

Visits and conferences

- H.570, H.571 Papers by others.
2 folders.
- H.572 Miscellaneous manuscript notes.
- H.573 Visit to Italy, 12-19 February 1982**
- One letter only *re* arrangements, February 1982.
- H.574-H.579 Visit to the USA, March - April 1982**
- Runcorn attended the 13th Lunar and Planetary Science conference in Houston, Texas, 15-19 March 1982 and spoke on 'The interpretation of lunar palaeomagnetic directions' (see also E.215, E.224). He also visited colleagues at various universities and research institutions in California, Florida and Texas. At Los Alamos National Laboratory he spoke on lunar palaeomagnetism, at Stanford University and the University of Washington he spoke on 'Lunar palaeomagnetism and polar wandering' and at the California Polytechnic State University he spoke on 'The geophysical mechanism for plate tectonics'.
- H.574-H.576 Correspondence *re* arrangements, September 1981-April 1983.
3 folders.
- H.577 Draft and final versions of Runcorn's abstracts on lunar palaeomagnetism.
- H.578, H.579 Information to participants of the 13th Lunar conference, etc.
2 folders.
- H.580 Visit to Germany, 26-30 April 1982**
- Runcorn had planned to visit the Institut für Allgemeine und Angewandte Geophysik of the University of Munich but had to cancel.
- Correspondence *re* arrangements, February-April 1982.

Visits and conferences

- H.581-H.585** **Royal Astronomical Society Meeting on 'Palaeoclimatology', London, 13-14 May 1982**
- Runcorn was one of the organisers of the meeting.
- See also G.375.
- H.581-H.583 Correspondence *re* arrangements, May 1980 - May 1982.
- 3 folders.
- H.584, H.585 Programmes of the 'Palaeoclimatology' and related meetings.
- 2 folders.
- H.586** **Visit to France, 27 May-9 June 1982**
- Brief correspondence *re* arrangements.
- H.587-H.591** **Visit to the USA, 27 August - October 1982**
- Runcorn lectured at the University of Miami on lunar palaeomagnetism and at the University of Northern Arizona on 'Mechanism of continental drift and plate tectonics'. He also visited many other universities and research institutions in the US.
- H.587-H.590 Correspondence *re* arrangements, April - December 1982.
- 4 folders.
- H.591 Miscellaneous material.
- H.592** **Planned visit to the Laboratory of Marine Biology Association of the UK, Plymouth, ca October 1982**
- Runcorn had tried to make arrangements to visit the Laboratory since 1978 but had not done so.
- Correspondence *re* arrangements, December 1978 - October 1982.

Visits and conferences

- H.593, H.594 Meeting of the Royal Statistical Society (North Eastern Group), Newcastle, 25 November 1982**
- Runcorn spoke on 'Statistics in geophysics'.
- H.593 Correspondence *re* arrangements, July 1981-August 1982.
- H.594 Abstract of Runcorn's lecture.
- H.595-H.598 Visit to the USA, 29 November - December 1982**
- Runcorn attended the American Geophysical Union meeting in San Francisco, California, 6-15 December, where he spoke on 'Mantle convection and the Geoid' and 'Lunar palaeomagnetism and primeval satellites in the Earth Moon system'. He also visited colleagues at a number of universities and research institutions, speaking at the University of Texas and the University of Miami (on 'Polar wandering on the Moon').
- H.595, H.596 Correspondence *re* arrangements, July 1982 - March 1983.
- 2 folders.
- H.597 Abstracts of Runcorn's lectures at the AGU meeting.
- H.598 Notices and programme of Climate Symposium at Lamont-Doherty Geological Observatory, 1-3 December.
- No evidence of Runcorn's attendance.
- H.599 Visit to France, 31 December 1982 - 7 January 1983**
- Runcorn made arrangements to visit the Universities of Nantes and Rennes and the Centre des Faibles Radioactivités, Gif sur Yvette.
- Correspondence *re* arrangements, October-December 1982.

Visits and conferences

- H.600-H.603** **Visit to the USA, March 1983**
- Runcorn attended the 14th Lunar and Planetary Science conference, where he spoke on 'Lunar palaeomagnetism, polar displacement and primeval Moon satellites'. He also visited colleagues at universities and research institutions in Texas and the University of Maryland. At Chevron Oil Field Research Company he spoke on 'New developments in palaeomagnetism and polar wandering' and at Texas A&M University he spoke on palaeomagnetism and continental drift.
- H.600, H.601 Correspondence *re* arrangements, October 1982-April 1983.
2 folders.
- H.602 Papers *re* arrangements.
- H.603 Abstract of Runcorn's lecture 'Lunar palaeomagnetism, polar displacement'.
- H.604-H.608** **2nd European Union of Geosciences meeting, Strasbourg, France, 28-31 March 1983**
- Runcorn spoke on 'Gravity plate motion convection' and on palaeomagnetism. He was also involved in the debate over future co-operation between the European Geophysical Society and the European Union of Geosciences.
- H.604-H.607 Correspondence and papers *re* arrangements, May 1981-October 1983.

Includes abstracts, and administrative papers of the European Union of Geosciences.

4 folders.
- H.608 Conference information etc.
- H.609, H.610** **Meeting on 'The Early Solar System', London, 6 May 1983**
- The meeting was organised under the auspices of the Planetary Science Sub-Committee of the British National Committee for Space Research (see G.504-G.553).

Visits and conferences

- H.609 Correspondence *re* arrangements, March-April 1983.
- H.610 Programme of the meeting.
- H.611, H.612 Royal Astronomical Society meeting, London, 13 May 1983**
- Runcorn spoke on 'Geophysical implication of fluctuations in the Earth's rotation'.
- H.611 Correspondence *re* arrangements, September 1982 - May 1983.
- H.612 Programme of the meeting.
- H.613, H.614 Visit to the USA and Canada, May - June 1983**
- Runcorn attended the meeting of the Joint Working Group of the US National Academy of Sciences and European Science Foundation on planetary exploration, Washington D.C., 16-18 May, the American Geophysical Union meeting in Baltimore, 30 May - 3 June (where he spoke on 'The palaeomagnetism and primeval satellites of the Moon') and a NATO Advanced Research Workshop. He also visited colleagues at universities and research institutions in Canada where he lectured to the Canadian Geological Survey on 'The mechanisms of continental drift'.
- H.613 Correspondence *re* arrangements, April - August 1983.
- H.614 Letter *re* Runcorn's paper 'The palaeomagnetism and primeval satellites of the Moon'.
- H.615 Visit to the USA, June - July 1983**
- Runcorn attended a meeting of the Joint Working Group of the US National Academy of Sciences and European Science Foundation on planetary exploration, 27-30 June 1983 (see G.94-G.107) and the International Astronomical Union Colloquium 77 'Natural Satellites' at Cornell University, 5-9 July. He also visited colleagues in California.
- Correspondence *re* arrangements, April-October 1983.

Visits and conferences

- H.616, H.617** **British Association for the Advancement of Science meeting, Brighton, 22-26 August 1983**
- Runcorn spoke on 'Lunar palaeomagnetism and the early history of the Earth-Moon system'.
- H.616 Correspondence *re* arrangements, March-September 1983.
- H.617 Programme and general conference information.
- H.618-H.620** **Meteoritical Society Symposium 'From Asteroids to Meteorites', Mainz, West Germany, 7-8 September 1983**
- The symposium was sponsored by the Commission on Extraterrestrial Geochemistry and was held in conjunction with the Meteoritical Society's 46th Annual Meeting. Runcorn spoke on 'Lunar palaeomagnetism and satellites around the Moon'. He was also asked to chair the session 'Early Earth: Giant Impacts'.
- H.618 Correspondence *re* arrangements, May-July 1983.
- H.619 Conference information.
- H.620 Abstract of Runcorn's paper.
- H.621** **100th Anniversary of the French Magnetic Observatory, Paris, France, 28-29 September 1983**
- Runcorn spoke on 'The geomagnetic secular variation and changes in the Earth's rotation'.
- Brief correspondence *re* arrangements, June-July 1983.

Visits and conferences

H.622

Visit to Italy, 9-15 November 1983

Runcorn attended a Pontifical Academy meeting in Rome, 12-14 November (see G.349). He also visited colleagues at the Institute of Physics at the University of Rome, where he spoke on 'Lunar palaeomagnetism and its implications', and the Institute of Spatial Astrophysics in Frascati.

H.623-H.627

Visit to the USA, 28 November - 22 December 1983

Runcorn attended the American Geophysical Union Fall meeting, San Francisco, California, 5-10 December where he spoke on 'The primeval satellite system of the Moon'. He also visited colleagues at various universities and research institutions. At the University of California in Davies he spoke on 'The Earth's rotation', at Harvard he spoke on 'Lunar palaeomagnetism and polar wander', at Brown University he spoke on 'Primeval lunar satellites' and at the University of Rhode Island on 'Mechanisms of plate motions'. He also lectured at the New York Academy of Science, at MIT, the Bell Laboratories, and the National Air and Space Museum.

H.623-H.625

Correspondence *re* arrangements, June 1983 - February 1984.

3 folders.

H.626

Abstracts of Runcorn's lectures 'The primeval satellite system of the Moon' (draft and final versions) and 'Solid state physics of the interior of the Earth'.

H.627

Registration for the American Geophysical Union meeting and newspaper clipping with report of the meeting.

H.628

175th Anniversary of the Royal Netherlands Academy of Arts and Sciences, Amsterdam, 12 December 1983

Invitation only.

H.629

Visit to West Germany, January 1984

Runcorn lectured at the Max-Planck Institute for Chemistry and the University of Heidelberg.

Correspondence *re* arrangements, January 1984.

Visits and conferences

H.630-H.632 European Union of Geosciences meeting, Mainz, West Germany, 22 February 1984

H.630 Correspondence *re* arrangements, November 1983 - February 1984.

H.631 Material related to the EUG Council including agenda of the Council meeting and list of participants, membership fees and budget for 1983. Also includes a members questionnaire completed by Runcorn.

H.632 Miscellaneous material.

H.633-H.639 Royal Society Discussion meeting on 'Rotation of the Solar System', London, 8-9 March 1984

Runcorn was one of the organisers of the meeting. He also chaired the session on 'Evolution of Rotation in the Earth-Moon System' and summarised the discussions in 'Review of the Presentation and Discussion on Rotation in the Solar System'.

H.633-H.635 Correspondence *re* arrangements, June 1982 - June 1984.
3 folders.

H.636 Draft and final programmes.

H.637 Provisional list of participants.

H.638 Abstracts.

H.639 Miscellaneous material.

H.640-H.644 Visit to the USA, March 1984

Runcorn attended the 15th Lunar and Planetary Science Conference, Houston, Texas, 12-16 March. He spoke on 'Lunar reorientation and primeval satellites'.

Visits and conferences

- /...
- He also visited colleagues at various universities and research institutions in Arizona, Louisiana and California. At the Arizona State University he spoke on 'Primeval satellites of the Moon', at University of California Los Angeles he spoke on 'Lunar palaeomagnetism, polar wandering and the existence of primeval satellites of the Moon' and at the Kitt Peak National Observatory he spoke on the primeval lunar magnetic field.
- H.640-H.642 Correspondence *re* arrangements and research interests, May 1983 - July 1984.

3 folders.
- H.643 Abstracts of Runcorn's paper 'Lunar reorientation and primeval satellites'.
- H.644 Conference information.
- H.645-H.649 UK Geophysical Assembly, University of Newcastle-upon-Tyne, 9-11 April 1984**
- Runcorn was one of the organisers of the meeting. He spoke on 'Primeval lunar pole displacements and satellite system' and 'Earth currents measured by pacific telegraph cables from 1968'.
- H.645 Brief correspondence *re* arrangements, March 1982 - May 1984.
- H.646 Programme of the UK Geophysical Assembly and the Joint Association for Geophysics General Meeting.
- H.647 List of participants.
- H.648 Abstracts of lectures.
- H.649 Agenda of meeting of the organising committee.

Visits and conferences

H.650

Visit to the Netherlands, April 1984

Runcorn may have visited the Geodetic Institute in Delft.

Brief correspondence *re* arrangements (visit postponed several times), October 1983 - February 1984.

H.651-H.655

Visit to the USA, May 1984

Runcorn attended the American Geophysical Union Spring meeting, Cincinnati, 4-18 May. He spoke on 'Geodynamic implications of short timescale changes in the geomagnetic dynamo' and 'Evidence for a primeval satellite system around the Moon' and chaired one of the sessions. He attended other meetings and visited colleagues at Princeton University and lectured at Rutgers State University of New Jersey.

H.651

Correspondence *re* arrangements, January-June 1984.

H.652

Abstracts of Runcorn's lectures.

H.653

Information to AGU conference participants.

H.654

Miscellaneous typescript and manuscript drafts.

H.655

Papers *re* symposium on 'Climate History, Periodicity and Predictability', place unspecified, 21-23 May 1984 and Asteroid Workshop, Jet Propulsion Laboratory, California, 22-24 May 1984

No evidence of Runcorn's attendance.

H.656-H.659

Visit to the USA, July - August 1984

Runcorn attended the 47th Meteoritical Society meeting, Albuquerque, 30 July-2 August. He spoke on 'Lunar palaeomagnetism, polar wandering and the existence of primeval lunar satellites'. He also visited the Amoco Production Co.

H.656

Correspondence *re* arrangements, March - July 1984.

Visits and conferences

- H.657 Abstracts of Runcorn's lectures etc.
- H.658 Notice and circulars.
- H.659 Miscellaneous material.
- H.660-H.666 Visit to the USA and Canada, October 1984**
- Runcorn attended the 16th Annual Meeting of the Division for Planetary Science of the American Astronomical Society, Hawaii, 9-12 October where he spoke on 'The interpretation of the gravity field of Venus and Mars'. He also attended the 16th Lunar and Planetary Institute conference on the Origins of the Moon, Hawaii, 12-16 October, speaking on 'Lunar palaeomagnetic directions and the existence of satellites'.
- He then spent time at the Institute of Geophysics, University of California Los Angeles before attending conferences on Lunar Base and Space Activities in the 21st Century, Houston, Texas, 29-30 October and Geopotential Research, Maryland. Runcorn then went on to McGill University, Montreal, where he lectured on mantle convection and the history of continental drift.
- H.660 Correspondence *re* arrangements, January 1984-April 1985.
- H.661, H.662 16th annual meeting of the Division for Planetary Science of the American Astronomical Society
Conference information.
2 folders.
- H.663, H.664 16th Lunar and Planetary Institute conference on the Origins of the Moon
Conference information, including abstracts.
2 folders.
- H.665 Invitation to the Geopotential Research Mission conference and list of participants.

Visits and conferences

- H.666 Travel documents.
- H.667 Visit to the Institute of Geophysics, Göttingen, West Germany, 22 November 1984**
- Runcorn spoke on 'Recent thoughts on mechanism of plate motions'.
Correspondence *re* arrangements, November 1984.
- H.668, H.669 Visit to the USA, 29 November - 10 December 1984**
- Runcorn attended the Institute of Ecotechnics Biospheres Workshop, SunSpace Ranch, Arizona, 7-10 December where he was one of the discussion leaders. He also visited colleagues in California.
- H.668 Correspondence *re* arrangements, October 1984 - January 1985.
- H.669 Workshop Programme.
- H.670, H.671 Planned Royal Society meeting on 'Climatic Variations', London, 1984**
- Runcorn had suggested this as a topic for a meeting but despite preliminary arrangements his proposal was not taken up.
- H.670 Correspondence *re* arrangements, September 1982-June 1984.
- H.671 List of possible topics and lecturers for the conference.
- H.672, H.673 Visit to West Germany, 2-15 January 1985**
- Runcorn spoke on 'Lunar Palaeomagnetism, lunar polar wandering and the existence of a primeval satellite system' in Münster, 'Astronomical, geophysical and palaeontological aspects of the Earth's rotation' in Munich and 'Plate Tectonics' in Tübingen.
- Correspondence *re* arrangements, September 1984-February 1985.
- 2 folders.

Visits and conferences

H.674 Visit to France, 13-15 February 1985

Runcorn visited the Centre National d'Études Spatiales in Gif, where he spoke on 'The mechanisms of plate motions, gravity sliding, hot spots or mantle convection', the Paris Observatory and the Institut de Physique du Globe.

Correspondence *re* arrangements, January - February 1985.

H.675 Visit to Edinburgh and Glasgow, 22 February 1985

Runcorn spoke on 'Earth currents measured by the Pacific Cables' at the British Geological Survey in Edinburgh and visited E. Roy at Glasgow University.

Correspondence *re* arrangements, April 1984 - February 1985.

H.676 Visit to the University of Lancaster, 27 February 1985

One letter only, February 1985.

H.677-H.680 Visit to the USA, March 1985

Runcorn attended the Lunar and Planetary Science conference, Houston, 10-15 March where he spoke on 'Lunar palaeomagnetic directions and the existence of satellites around satellites'. He also visited colleagues in California, Florida and Oklahoma.

At California State University, Long Beach, Runcorn spoke on 'Lunar palaeomagnetism, polar wandering and implications for the Earth' and at Florida State University, Tallahassee, he gave lectures on 'Palaeointensity measurements and the lunar core dynamo', 'Lunar palaeomagnetic directions and their interpretation in terms of polar reorientation and the existence of primeval lunar satellite system' and 'Changes in lunar mantle convection: evidence and theoretical calculations'.

H.677, H.678 Correspondence *re* arrangements, September 1984 - April 1985.

2 folders.

H.679 Runcorn's abstract of 'Earth currents measured by Pacific Ocean telegraph cables'.

Visits and conferences

- H.680 Travel documents.
- H.681-H.686 3rd European Union of Geosciences conference, Strasbourg, France, 1-4 April 1985**
- Runcorn was one of the convenors of the 'Recent Development in Planetary Exploration' sessions, at which he also spoke on 'Lunar palaeomagnetism and primeval lunar satellites' and 'The interpretation of the gravity fields of Venus and Mars'.
- H.681-H.683 Correspondence *re* arrangements, February 1984 - March 1985.
- 3 folders.
- H.684 Abstracts of lectures delivered at the conference, including Runcorn's.
- H.685 Programme.
- H.686 Miscellaneous material.
- H.687 United Kingdom Geophysical Assembly, Norwich, 15-17 April 1985**
- Letter and invitation to the conference (declined), April 1985.
- H.688 Geodynamics Research Symposium, Texas A&M University, 25-26 April 1985**
- Runcorn was invited but declined the invitation.
- Brief correspondence invitation (declined), December 1984 - January 1985.
- H.689-H.693 Visit to the USA, May 1985**
- Runcorn visited the US Air Force Office of Scientific Research, Washington D.C., 20-25 May, as part of the 'Windows on Science' programme. He spoke on 'Astronomical, geophysical and palaeontological aspects of the Earth's rotation' and 'Mechanisms of plate motions: hot spots, gravity sliding or mantle convection?'

Visits and conferences

- /... He also attended the American Geophysical Union Spring meeting in Baltimore (27-31 May) where he delivered two lectures: 'Mantle convection: heresy to orthodoxy' and 'Lunar palaeomagnetism: core dynamo and the primeval satellite system'.
- H.689, H.690 US Air Force Office of Scientific Research.
- H.689 Correspondence *re* arrangements, January - July 1985.
- H.690 Report of Runcorn's visit and poster for his lectures.
- H.691-H.693 American Geophysical Union Spring meeting.
- H.691 Correspondence *re* arrangements.
- H.692 Abstracts of Runcorn's lectures.
- H.693 Miscellaneous papers.
- H.694-H.717 NATO Advanced Study Institute on 'The Physics of Planets: their Origin, Evolution and Structure', University of Newcastle upon Tyne, 9-20 April 1985**
- Runcorn was one of the organisers of the Study Institute and was involved in the publication of the proceedings. He spoke on 'Palaeomagnetic evidence for primeval lunar satellites' and contributed to the 'Magnetism in the Solar System' panel discussion.
- H.694-H.705 Correspondence *re* arrangements and publication of the proceedings, January 1984 - February 1988.
- 12 folders
- H.706 Correspondence and papers titled 'Dealings with NATO Scientific Affairs Division', *re* budget and attendance, April 1985-July 1985.
- H.707 Provisional and final lists of participants.

Visits and conferences

- H.708 Provisional and final programmes.
- H.709 Copy of 'Lunar palaeomagnetism and the origin of the Moon'.
- H. 710 Abstracts of papers delivered.
- H.711 General information for participants.
- H.712 Copies of application for support to NATO Advanced Study Institute Programme and the European Physical Society.
- H.713, H.714 Material relating to the budget and report to the NATO Advanced Study Institute Programme.
2 folders.
- H.715 Copies of the preface, list of contents and list of lecturers for the published proceedings.
- H.716 Manuscript notes from the Study Institute.
- H.717 Miscellaneous material.
- H.718, H.719 Visit to the USA, June 1985**
- Runcorn was on the organising committee of the California Institute of Technology (Caltech) conference on 'Terrestrial Planets: Comparative Planetology (5-7 June). He spoke on 'The non-hydrostatic figures of the terrestrial planets', He also visited colleagues at other universities and research institutions in California.
- H.718 Correspondence *re* arrangements, September 1984 - July 1986.
- H.719 Caltech conference information.

Visits and conferences

- H.720** **Visit to West Germany, 15-21 June 1985**
- Runcorn lectured at the University of Bayreuth and the University of Mainz. He also visited Heidelberg.
- Brief correspondence *re* arrangements, May 1985.
-
- H.721-H.724** **Visit to France, 5-19 July 1985**
- Runcorn attended the Meteoritical Society meeting in Bordeaux (16-19 July) and spoke on 'Lunar palaeomagnetism and primeval lunar satellites'. He also visited colleagues in Nantes.
- H.721 Brief correspondence *re* arrangements, April-June 1985.
-
- H.722-H.724 Conference information.
- 3 folders.
-
- H.725** **'Universe and Cosmology: Myth, Reality, Fantasy' conference, place unspecified, 28 November 1985**
- Runcorn showed interest in the conference and indicated he would lecture on the early development of astronomy.
- Brief correspondence *re* arrangements, October 1984 - January 1985.
-
- H.726-H.728** **Visit to the USA, November - December 1985**
- Runcorn attended the American Geophysical Union meeting (9-13 December) and spoke on 'Solid state convection in Venus' and 'The origin and implications of lunar palaeomagnetism'. After the conference he spent some time at University of California Los Angeles and at the Jet Propulsion Laboratory.
-
- H.726 Correspondence *re* arrangements, March 1985 - January 1986.
-
- H.727 Abstracts of Runcorn's papers.

Visits and conferences

- H.728 Grant application.
- H.729, H.730 2nd Seminar of Planetary Geology, University of Barcelona, Spain, 29 January - 1 February 1986**
- Runcorn had planned to attend and speak on 'Magnetic fields of the planets', and 'Lunar palaeomagnetism and the origin of the Earth-Moon system', but had to cancel at the last minute.
- H.729 Correspondence *re* arrangements, November-August 1986.
- H.730 Abstracts of Runcorn's planned contributions.
- H.731-H.733 Royal Astronomical Society discussion on 'Solid State Convection in the Planets', London, 14 February 1986**
- Runcorn was one of the organisers of the meeting and spoke on 'Convection in Venus and Mercury'.
- H.731 Correspondence *re* arrangements, July 1985-February 1986.
- H.732 Programme and meeting notice.
- H.733 Manuscript notes.
- H.734 Seminar, Imperial College, London, 19 February 1986**
- Runcorn spoke on 'Lunar Magnetism'.
- Letter *re* arrangements, September 1985; abstract of Runcorn's paper.

Visits and conferences

H.735-H.739

Planned visit to the USA, March-April 1986

Runcorn had planned to attend the 17th Lunar and Planetary Science meeting, Houston, Texas, 17-21 March and to visit colleagues at various universities and research institutions in California and Texas but the visit was cancelled.

H.735, H.736

Correspondence *re* arrangements, January-June 1986.

2 folders.

H.737

Collection of abstracts of lectures, including Runcorn's.

H.738, H.739

Miscellaneous material.

2 folders.

H.740, H.741

Planned visit to the USA, May 1986

Runcorn had planned to attend the American Geophysical Union meeting in Baltimore. However he cancelled the visit at the last minute.

H.740

Correspondence *re* arrangements, 1986.

H.741

Abstracts of Runcorn's papers for the AGU meeting.

H.742-H.745

Mercury Conference, Tucson, Arizona, USA, 6-9 August 1986

Runcorn had planned to attend this conference but cancelled.

H.742

Brief correspondence *re* arrangements, May 1985 - August 1986.

H.743

Programme and abstracts of lectures delivered.

Also includes abstract of Runcorn's planned contribution.

Visits and conferences

- H.744, H.745 Conference information etc.

2 folders.
- H.746 125th Anniversary of the Swiss Geodetic Commission, Zurich, Switzerland, 12-13 September 1986**
- Brief correspondence *re* arrangements, April 1986; programme of the meeting (in German).
- H.747-H.750 49th Annual Meeting of the Meteoritical Society, New York, 22-25 September 1986**
- Runcorn spoke on 'Lunar palaeomagnetism and its implications'.
- H.747 Correspondence *re* arrangements, July - October 1986.
- H.748 Provisional programme.
- H.749 Abstract of Runcorn's lecture.
- H.750 Conference information.
- H.751 Research Seminar, University of Essex, 14 October 1986**
- Runcorn spoke on 'Lunar palaeomagnetism, polar wandering and the possible existence of early moons in the Earth-Moon system'.
- Brief correspondence *re* arrangements, September-October 1986.

Visits and conferences

- H.752** **Visit to Switzerland, 21-23 October 1986**
- Runcorn approached colleagues at the University of Bern, the Institute of Geophysics in Zurich and the Geophysics Laboratory of the University of Geneva to make a visit and give a lecture.
- Brief correspondence *re* arrangements, June - September 1986.
-
- H.753** **DPS-AAS meeting, Paris, France, 4-7 November 1986**
- Photocopy of application form only.
-
- H.754** **Visit to West Germany, November 1986**
- Runcorn planned to visit colleagues at the State Museum of Natural History and the Institute of Geology in Stuttgart.
- Brief correspondence *re* arrangements, May-August 1986.
-
- H.755, H.756** **Royal Astronomical Society/JAG discussion meeting 'Planetary Volcanism', London, 14 November 1986**
- Runcorn spoke on 'The fundamental significance of volcanism on the Moon'.
- H.755 Brief correspondence *re* arrangements, July-August 1986.
-
- H.756 Programme of the meeting.
-
- H.757** **Visit to Manchester, 25 November 1986**
- Runcorn spoke on 'Earth and Moon - palaeomagnetism and internal dynamics' to the Manchester Geological Society.
- 1 letter only, *re* arrangements, October 1986.

Visits and conferences

H.758, H.759

Planned visit to the USA, December 1986

Runcorn planned to attend the American Geophysical Union meeting in San Francisco, California, 8-12 December and to make visits to colleagues at other research institutions. However, the visit was cancelled.

H.758

Correspondence *re* arrangements, June 1986-February 1987.

H.759

Abstracts of Runcorn's planned lectures.

H.760, H.761

Meteorites and the Early Solar System conference, Tucson, Arizona, 6-9 January 1987

Runcorn was consulted about the organisation of the conference.

H.760

Correspondence *re* arrangements, September 1985-May 1986.

H.761

Provisional format of the conference.

H.762-H.765

Visit to West Germany, France, Belgium and The Netherlands, 20 January - 6 February 1987

Runcorn visited West Germany supported by the European Science Exchange programme. He lectured at the University of Tübingen and visited colleagues at universities and research institutions in Bonn, Darmstadt, Heidelberg, Stuttgart and Hanover. During this trip, he also visited colleagues in Paris, Brussels and the Shell Laboratory in the Netherlands.

H.762

Correspondence *re* arrangements, October 1986 - February 1987.

H.763

Programme of the visit.

H.764

Report on the visit.

H.765

Grant application to the European Science Exchange programme and miscellaneous notes.

Visits and conferences

- H.766** **Royal Astronomical Society meeting on 'The History of Palaeomagnetic Research in Europe', London, 13 February 1987**
- Runcorn was one of the organisers of the meeting and spoke on 'Early palaeomagnetic debates: making sense of confusing data'.
- Correspondence *re* arrangements, January 1986 - January 1987.
-
- H.767** **Department of Surveying seminar, University of Newcastle upon Tyne, 3 March 1987**
- Runcorn spoke on 'The interpretation of the Geoid'.
- Correspondence *re* arrangements, December 1986 - January 1987.
-
- H.768** **Visit to Paris, France, 7 March 1987**
- In a letter to Claude Allegre Runcorn suggested he would give a lecture at the Institut de Physique du Globe on 7 March.
- Letter *re* arrangements, February 1987.
-
- H.769-H.771** **18th Lunar and Planetary Science conference, Houston, Texas, 16-20 March 1987**
- Runcorn had planned to attend but it appears that he was unable to do so.
-
- H.769 Brief correspondence *re* arrangements, January-April 1987.
-
- H.770 Abstracts of Runcorn's planned contributions: 'Further aspects of lunar palaeodensity determinations and the origins of the ancient lunar magnetic field' and 'Primeval lunar satellites'.
-
- H.771 Miscellaneous material.

Visits and conferences

- H.772, H.773** **11th UK Geophysical Assembly meeting, University of Durham, 6-8 April 1987**
- Runcorn spoke on 'Geophysical experiments to search for deviations from the inverse square law of gravitation' and 'Lunar palaeomagnetism'.
- H.772 Abstract of Runcorn's paper.
- H.773 Conference information etc.
- H.774, H.775** **Geodynamics Symposium 'Silver Anniversary Celebration of Plate Tectonics', Texas A&M University, 22-24 April 1987**
- H.774 Brief correspondence *re* arrangements, April-June 1987.
- H.775 Preliminary programme and list of participants.
- H.776-H.784** **Royal Astronomical Society meeting on 'the Excitation of the Chandler Wobble', London, 8 May 1987**
- Runcorn was one of the organisers of the meeting and was involved in the publication of the proceedings. He spoke on 'Does the core excite the Chandler Wobble?'
- H.776-H.779 Correspondence *re* arrangements, June 1986 - October 1987.
- 4 folders.
- H.780 Provisional and final programmes.
- H.781 Typescripts of H.J.M. Abraham's papers 'Features of the Chandlerian Nutation' and 'On Changes in the kinetic energy and frequency of the Chandler Nutation'.
- H.782 Papers *re* compilation of proceedings in view of publication.

Visits and conferences

- H.783 Figures probably to be published in the proceedings.
- H.784 Miscellaneous material.
- H.785 American Geophysical Union meeting, Baltimore, USA, 18-21 May 1987**
- Runcorn had planned to lecture on 'Solid state convection in the Earth and planets', 'Studies of possible Yukawa-like term in the gravitational potential' and 'Early development of palaeomagnetism' but had to cancel at the last minute.
- Brief correspondence *re* arrangements, March - May 1987.
- H.786, H.787 64th meeting of the Council of Europe Working Group on Geodynamics, Luxembourg, 1-3 June 1987**
- Runcorn spoke on 'Experimental tests of deviations from Newtonian gravitation' and 'Excitation of the Chandler Wobble'.
- H.786 Brief correspondence *re* arrangements, February-June 1987.
- H.787 Conference information.
- H.788-H.803 50th annual meeting of the Meteoritical Society, University of Newcastle upon Tyne, 20-24 July 1987**
- Runcorn was one of the organisers of the conference. He chaired the 'Invited session' and helped organise an exhibition on Thomas Harriot to be presented as part of the meeting.
- H. 788-H.795 Correspondence *re* arrangements, October 1984 - November 1987.
- 8 folders.
- H.796 List of participants.

Visits and conferences

- H.797-H.799 Conference information.

3 folders.
- H.800 Miscellaneous material.

Includes a list of conference chairmen, information on the Herschel exhibition held during the conference and an article by H.H Nininger titled 'The birth of the Society for Research on Meteorites (not the Meteoritical Society)'.
- H.801 Correspondence *re* arrangements for the Harriot exhibition, June-August 1987.
- H.802 Collection of photocopied articles on the life and work of Thomas Harriot.
- H.803 Miscellaneous material, including a photograph of Thomas Harriot.
- H.804 Visit to the USA, September 1987**

Runcorn visited Purdue University, Brown University, the University of Arizona, and the University of Maryland.

Brief correspondence arising, October 1987.
- H.805 Space Future Forum, Moscow, USSR, 2-4 October 1987**

Runcorn had planned to attend this meeting to celebrate the 30th anniversary of Sputnik but cancelled due to travel difficulties.

Telegrams and correspondence *re* arrangements, August-October 1987.

Visits and conferences

- H.806-H.812** **International Forum on Scientific Uses of the Space Station meeting on 'Physics and Astrophysics in the Space Station Era', Venice, Italy, 4-7 October 1987**
- Runcorn spoke on 'Fundamental physics experiments in a low gravity environment' and on 'Planetology and solar system observations from the space station'. He was also a rapporteur and moderator of the discussion.
- H.806 Correspondence *re* arrangements, August-November 1987.
- H.807 Programme of the meeting and notice to participants.
- H.808-H.812 Miscellaneous information on space stations.
5 folders.
- H.813-H.818** **Visit to the USA, November 1987**
- Runcorn planned to attend the NASA Mars Sample Return Science workshop, 16-18 November to lecture on 'Mars palaeomagnetism'. However, his visit was cancelled.
- H.813 Correspondence *re* arrangements.
- H.814 Programme of the workshop.
- H.815 Abstracts of lectures delivered at the workshop.
- H.816 Workshop information.
- H.817 D.W. Collinson and A. Stephenson's paper 'Mars Sample Science Document: Proposal for Study of Magnetic Properties of Returned Mars Sample'; Runcorn's proposal summary of 'Investigation of the Ancient Lunar Magnetic Field'.
- H.818 Miscellaneous material.

Visits and conferences

- H.819** **American Geophysical Union Fall meeting, San Francisco, California, 7-11 December 1987**
- Acceptance letter for Runcorn's paper 'Lunar palaeomagnetism and its implications' and abstract of the paper.
- H.820, H.821** **Visit to the Netherlands, 16-20 December 1987**
- Runcorn attended the Vening Meinez anniversary celebration at the Royal Netherlands Academy of Arts. He spoke on 'Vening Meinez and convection in the Earth's mantle: from static to dynamic models of the Earth's interior'.
- H.820 Correspondence *re* arrangements, August 1987 - June 1988.
- Also includes abstract of Runcorn's lecture.
- H.821 Programme of the meeting.
- H.822, H.823** **23rd Moriond Conference on 'Neutrinos and Exotic Phenomena', Les Arcs, France, 23-30 January 1988**
- Runcorn spoke on 'Results of the G(r) Search' in the session on the Fifth Force.
- H.822 Brief correspondence *re* arrangements.
- H.823 Programme and notice to conference participants.
- H.824** **Physics Seminar, University of Manchester, 3 February 1988**
- Runcorn spoke on 'Deviation from Newtonian Gravitation'.
- Brief correspondence *re* arrangements, October 1987-April 1988.

Visits and conferences

H.825-H.831 Royal Astronomical Society meeting on 'The Search for a Yukuza-like Term in the Gravitational Potential', London, 12 February 1988

Runcorn was one of the organisers of the meeting. He spoke on 'Experiments in large dry docks', with M.J Gross and M. Hill on 'Comments on the contribution of Fuji' and with R. Edge and M. Oldham on 'Experiments at Dinorwig Power Storage Reservoir'.

H.825-H.827 Correspondence *re* arrangements, March 1987 - February 1988.

Also includes abstract.

3 folders.

H.828 Provisional and final programmes.

H.829 Abstracts and printed material.

H.830 Conference information.

H.831 List of invitees.

H.832 Visit to the University College of Wales, Aberystwyth, 1 March 1988

Runcorn spoke at the College on 'The magnetic fields of the planets, now and in their past'.

Brief correspondence *re* arrangements, June 1987 - April 1988.

H.833, H.834 Visit to the USA, March 1988

Runcorn had planned to attend the 19th Lunar and Planetary Science Conference, Houston, Texas, 14-18 March to talk on 'Primeval lunar satellites'. He also planned to visit colleagues at other universities and research institutions in the US. However, due to illness he had to cancel his visit.

Visits and conferences

- H.833 Correspondence *re* arrangements, January 1987-March 1988.
Also includes draft of Runcorn's lecture, not accepted by the conference organisers.
- H.834 Conference information.
- H.835 Visit to the University of Edinburgh, May 1988**
Brief correspondence *re* arrangements, May 1988.
- H.836, H.837 Sydney Chapman Centenary, Imperial College London, 10 May 1988**
Runcorn spoke on Chapman's contribution to geomagnetism.
- H.836 Correspondence *re* arrangements, February-May 1988.
- H.837 Poster.
- H.838, H.839 Royal Astronomical Society meeting on 'Geomagnetism and Tides', London, 13 May 1988**
Runcorn spoke on 'Sydney Chapman and the main geomagnetic field'.
- H.838 Brief correspondence *re* arrangements, March-April 1988.
- H.839 Programme of the meeting.
- H.840 Seminar, University College London, 15 April 1988**
Runcorn spoke on 'The search for departures from Newtonian gravity'.
Brief correspondence *re* arrangements, April-May 1988.

Visits and conferences

H.841-H.844 **VESTA conference: 'Towards the Origin of the Solar System', Paris, France, 27-28 May 1988**

Runcorn spoke on 'VESTA: Experiments to test the Hypothesis of a Fifth Force'.

H.841 Correspondence *re* arrangements, January-May 1988.

H.842 Preliminary and final programmes.

H.843 Abstract of Runcorn's paper.

H.844 Brochure on the VESTA Mission and report of Phase A of the VESTA Mission, May 1987, published by the Centre National D 'Études Spatiales.

H.845 **Visit to the USA, October-November 1988**

Runcorn planned to attend the American Geophysical Union meeting in November and make other visits. However, it is not clear whether the visit was made.

Brief correspondence *re* arrangements, April-July 1988.

H.846 **Royal Astronomical Society meeting on 'Biological Growth Increments both Fossils and Present Day and Application in Geophysics, London, date unspecified [ca 1988].**

Correspondence *re* arrangements, February 1985-April 1988.

H.847-H.862 **Joint French Académie des Sciences and Royal Society meeting on 'The Earth's Climate and Variability of the Sun over Recent Millennia: Geophysical, Astronomical and Archaeological Aspects', London, 15-16 February 1989**

Runcorn had first suggested the topic of the meeting to the Royal Society Hooke Committee in 1980. The meeting was organised by Runcorn.

Visits and conferences

- H.847-H.856 Correspondence (some in French) *re* arrangements, March 1980 - October 1989.
Also includes abstracts.
10 folders.
- H.857 Provisional and final programme.
- H.858 List of participants.
- H.859 Abstracts of lectures.
- H.860 Manuscript copies of contributions to discussion to be included in the meeting report.
- H.861 Report of meeting held by the organising committee to propose the topic for Royal Society discussion meeting.
- H.862 Miscellaneous manuscript and typescript notes.
- H.863-H.872 Royal Astronomical Society meeting on 'George McVittie, 1904-1988, his life and interest', London, 10 March 1989**
- Runcorn organised the meeting and was also involved in the publication of the proceedings in *Vistas in Astronomy*. He spoke on 'George McVittie: his breadth of scientific interest'. He also organised a parallel discussion meeting on 'Early Heat Source in the Solar System'.
- See also G.382.
- H.863-H.865 General correspondence and papers, May 1988-October 1989.
Includes papers on McVittie by W. Davidson and R. Chisholm.
3 folders

Visits and conferences

- H.866-H.869 'George McVittie, 1904-1988' conference.
- H.866 Provisional and final programmes.
- H.867 Curriculum vitae of George McVittie and biography listing his scientific achievements.
- H.868 Paper by Sir William McCrea 'George Cunliffe McVittie (1904-88), OBE, FRSE Pupil of Whittaker and Eddington: Pioneer of Modern Cosmology'.
- H.869 Papers on McVittie by Runcorn and Raymond Hide ('Brief comments on George McVittie's meteorological papers').
- H.870, H.871 'Early Heat Source in the Solar System' conference
- H.870 Provisional and final programmes.
- H.871 Conference papers.
- H.872 Miscellaneous material.
- H.873 Royal Astronomical Society out-of-town meeting, Lunteren, The Netherlands, 30 March 1989**
- Programme of the meeting only.
- H.874, H.875 Miscellaneous travel documentation, 1980s**
- H.874 Grant applications to the Royal Society
- Runcorn applied frequently to the Royal Society for grants to support his travel.
- Correspondence replying to Runcorn's applications, 1981, 1985.

Visits and conferences

- H.875 Air travel refund and other discount claims
Correspondence, 1982-1988.
- H.876-H.878 Royal Astronomical Society meeting on 'Space Studies of Solar System Magnetic Fields', London, 12 January 1990**

Runcorn was an organiser of the meeting. He spoke on 'Lunar and planetary core and spherical shell dynamo'.
- H.876 Correspondence and papers *re* arrangements, August-December 1989.
- H.877 Programme of the meeting; list of Royal Astronomical Society meetings October 1989 to September 1990.
- H.878 Miscellaneous material.
- H.879-H.883 Planned visit to Greece, January - February 1990**

Runcorn had planned to go to Greece throughout the 1980s but did not make a visit. Although a January 1990 visit under the auspices of the British Council was well in hand, it is not clear whether Runcorn did go to Greece.
- H.879, H.880 Correspondence *re* arrangements, February 1983-October 1989.
2 folders.
- H.881 Runcorn's application to the British Council for support.
- H.882 Report on a visit to Greece by K.M. Creer of Edinburgh University.
- H.883 Miscellaneous material.

Visits and conferences

- H.884, H.885** **Royal Astronomical Society meeting on 'Solid State Physics and Geophysics', London, 9 February 1990**
- Runcorn organised the meeting and spoke on 'Core mantle coupling and lower mantle electrical conductivity'.
- H.884 Brief correspondence *re* arrangements, January - February 1990.
- H.885 Programme of the meeting.
- H.886** **Proposal for a Royal Astronomical Society meeting on 'Gravitation: Recent Physical and Laboratory Investigations', ca 1990-1992**
- Runcorn suggested the topic of the meeting and the Royal Astronomical Society accepted it for the 1990-1992 session. However, there is no evidence in the papers that the meeting went ahead.
- Brief correspondence *re* arrangements, December 1988 - July 1989.
- H.887 Not used.
- H.888-H.892** **Royal Society meeting on 'The Solar System: a Review of Results from Space Missions', London, 25-26 January 1994**
- The meeting was organised by Runcorn, who spoke on 'Evidence for a primeval lunar satellite system: a clue to planetary formation'. He was also involved in the publication of the proceedings.
- H.888 Correspondence *re* arrangements, November - December 1993.
- H.889 Programme and list of participants.
- H.890 Abstracts of lectures delivered and review of the meeting.
- H.891, H.892 Draft and final versions of Runcorn's paper.
2 folders.

Visits and conferences

H.893 Ciba Foundation/Royal Society discussion meeting on 'The Origin of Life in the Solar System', London, 27 January 1994

Runcorn chaired the meeting.

Programme.

H.894 Institute of Ecotechnics seminar on 'Biosphere 2 and Other Closed Systems', London, 10-12 April 1996

Runcorn was involved in the organisation of the meeting.

Brief correspondence *re* the venue, February-March 1995.

H.895 Royal Society meeting on 'Magnetic Field Generation in the Solar System', 1997-1998

Runcorn suggested the topic of the meeting in 1995 but the Royal Society decided to reconsider the proposal for the 1997-1998 meeting programme.

Letter of proposal *re* the meeting, February 1995.

H.896 Miscellaneous shorter correspondence *re* possible visits.

H.897 Miscellaneous visits material.

SECTION J CORRESPONDENCE

J.1-J.124

Runcorn was a conscientious correspondent, despite his very frequent travel and peripatetic lifestyle. However, the bulk of his correspondence is not to be found in this section as most has been retained with the material to which it relates and with which it was found. Thus many letters are to be found elsewhere, particularly within sections D (Research), G (Societies and organisations) and H (Visits and conferences).

Runcorn kept a few sequences of correspondence together under a named individual and these are presented in the first subsection. The principal correspondents represented are W.F. and L.M. Libby of the University of California Los Angeles. The bulk of the remaining correspondence is arranged in a chronological sequence 1948-1995. Runcorn does not seem to have kept correspondence as a matter of course and the sequence for September-December 1988 at J.61, J.62 may be a unique survival indicating the volume of correspondence he typically received.

The single largest component of this section, however, is Runcorn's references and recommendations for his former students and colleagues. He kept an extensive sequence of these, retained in an alphabetical sequence which is preserved in the arrangement.

The material is arranged as follows:

J.1-J.34	CORRESPONDENCE: ALPHABETICAL
J.35-J.70	CORRESPONDENCE: CHRONOLOGICAL
J.71-J.124	REFERENCES AND RECOMMENDATIONS

Correspondence

J.1-J.34	CORRESPONDENCE: ALPHABETICAL	1953-1995
J.1	Baumgardner, J.R. Baumgardner was based at the Los Alamos National Laboratory. Correspondence and papers <i>re</i> work on early lunar mantle.	1984-1985
J.2	Dickey, D.D. Dickey worked for the US Geological Survey based in Colorado. Letter to Runcorn enclosing maps and data on locations in Utah.	1957
J.3	Hide, R. Hide was in the Oxford Department of Atmospheric, Oceanic and Planetary Physics.	1994-1995
J.4	Hughes, H. Correspondence and data <i>re</i> light absorption.	1953, 1954
J.5, J.6	Hughes, W.W. Hughes was at Andrews University, Michigan.	1979-1983
J.5	1979-1981. Includes material <i>re</i> growth rings on Nautilus.	
J.6	1982-1983. Chiefly <i>re</i> joint paper with Runcorn 'Growth lines in fossil nautiloids'.	
J.7-J.9	Irving, E. Irving worked in the Geomagnetism Laboratory of the Earth Physics Branch of the Canadian Department of Energy, Mines and Resources.	1979-1992
J.7	1979. Includes Irving's election to the Fellowship of the Royal Society.	

Correspondence

- J.8 1980. Chiefly *re* Runcorn and Irving's work in the 1950s.

Includes letter from Runcorn replying to Irving's questions on the history of continental drift and contribution to the development of ideas in the area.
- J.9 1981-1982, 1992. Chiefly history of the idea of continental drift.
- J.10-J.25 **Libby, W.F. and L.M.** 1977-1987

Willard Frank and Leona Marshall Libby were on the staff of the University of California Los Angeles (W.F. Libby at the Institute of Geophysics and Planetary Physics, L.M. Libby at Environmental Science and Engineering). The Libbys co-authored a number of papers with Runcorn, not all of which were accepted for publication. Willard died in 1980 and Leona in 1986.

Includes correspondence *re* joint work and drafts of papers authored or co-authored by the Libbys. See also C.62-C.64.
- J.10 1977.
- J.11 1978.

Includes draft of 'Possibility of superheavy elements in iron meteorites II' by W.F. and L.M. Libby and Runcorn, April 1978.
- J.12 1979.

Includes draft of 'A new cosmology and the problem of solar neutrinos' by W.F. and L.M. Libby.
- J.13 January - June 1980.

Chiefly response to article by R.K. Bull on super heavy elements (*Nature* vol 282 (1979), 393).
- J.14 August - December 1980.

Includes draft of 'The upside down cosmology and the lack of solar neutrinos' by W.F. and L.M. Libby, December 1980.

Correspondence

- J.15 1981.
- Includes draft of 'Density versus time in the early Universe' by A.O. Barut and L.M. Libby, May 1981.
- J.16 January - June 1982.
- Includes draft of 'Estimation of Hubble constant using distribution objects with velocity of recession' by L.M. Libby, [] Marshall and Runcorn.
- J.17 July - September 1982.
- Includes draft of 'A solar breeder to explain the lack of neutrinos and constant luminosity' by L.M. Libby *et al.*
- J.18 October 1982.
- Includes draft of 'Systematics of Quasi-Stellar-Object spectra' by L.M. Libby, L.H. Levine and Runcorn.
- J.19 November - December 1982.
- J.20 1983.
- J.21 1984.
- Includes 'Tentative explanation for lower density to red and higher density to blue of Lyman-Alpha for absorption lines in several QSOs' and 'Nuclear reactors to heat Jupiter and Saturn' by L.M. Libby.
- J.22 1985.
- Includes 'Review: possibility of super heavy elements in the solar system' by L.M. Libby and Runcorn.
- J.23 1986.

Correspondence

- J.24 1987.
- J.25 Nd.
Includes 'Fission product elements in Quasi-Stellar Objects' by L.M. Libby.
- J.26, J.27 **Opdyke, N.D.** 1958-1971
Opdyke was a member of the Geology Department in the Rice Institute, University of Texas in the late 1950s and worked with Runcorn on rock magnetism. He then held posts in Australia and Rhodesia before returning to the US and working at the Lamont Geological Observatory, New York.
- J.26 1958-1959.
- J.27 1960-1971.
- J.28-J.34 **Srnka, L.J.** 1968-1975
Srnka was a Marshall Scholar at the University of Newcastle. He studied for his Ph.D. under Runcorn working on solar winds.
- J.28 1968-1969.
Includes drafts on solar wind-Moon interaction.
- J.29 1970 (1).
Chiefly work carried out at UK Atomic Energy Authority Culham Laboratory, Berkshire.
- J.30 1970 (2).
'A proposed super-Alfvénic rotating plasma experiment'.
- J.31 1971.
Includes thesis outline 'Steady induction in the solar wind'.

Correspondence

J.32	1972.	
J.33	1973. Chiefly <i>re</i> Ph.D.	
J.34	1974-1975.	
J.35-J.70	CORRESPONDENCE: CHRONOLOGICAL	1948-1995, nd
	Chiefly correspondence <i>re</i> research, visits, equipment etc.	
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J.51	1978. Includes photograph of Runcorn.
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