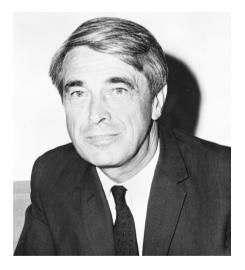


Catalogue of the papers and correspondence of

Leonard Rotherham (1913-2001)



NCUACS catalogue no.98/3/01

L. Rotherham NCUACS 98/3/01

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(1913-2001), physicist and metallurgist

Compiled by: Lizzie Richmond and Peter Harper

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GENERAL INTRODUCTION

PROVENANCE

An original deposit of material by Rotherham in the University of Bath archives was supplemented in December 1999 by papers received from his son, Mr Miles Rotherham.

OUTLINE OF THE CAREER OF LEONARD ROTHERHAM

Leonard Rotherham was born on 31 August 1913. He was educated at The Herbert Strutt School, Belper, Derbyshire and won a Derby County Major Scholarship as well as a state scholarship to attend University College, London where he obtained a first class degree in physics with subsidiary mathematics. In 1935 he received an MSc from the same institution for research on the viscosity of liquids carried out under the supervision of Professor E. N. da C. Andrade.

Rotherham's first industrial appointment was at the Brown-Firth Research Laboratories in Sheffield where he conducted work on the physical and mechanical properties of metals with particular reference to magnetism, fatigue and creep. By 1939 the laboratories under Rotherham's direct control constituted half of all the Brown-Firth research facilities. Rotherham's own research centred on the development of creep resistant materials. During World War II this area of study gained additional importance through its contribution to the evolution of jet propulsion engines and Rotherham was personally concerned with the manufacture of the special materials which went into the production of the experimental Whittle engines. He also had special responsibilities for the monitoring and development of shells and armour manufacture.

After eleven years in Sheffield Rotherham became head of the Metallurgy Department at the Royal Aircraft Establishment, Farnborough, Hampshire. Though he joined the Establishment at a difficult time, when the Department of Metallurgy was recovering from a post-war decline, Rotherham initiated new programmes of research on the extraction and characteristics of titanium, the corrosion behaviour and high-temperature properties of aircraft structural materials and the fatigue and creep of metals. After four years he had become an authority on the creep of metals and left behind a much healthier department to take up a new post with the UK Atomic Energy Authority (UKAEA), Industrial Group, Risley, Cheshire.

As Director of Research at the UKAEA he set up and oversaw the large organisation which was responsible for almost all the metallurgical work involved in the design, installation and maintenance of the Calder Hall and Dounreav nuclear reactors.

Rotherham left the UK Atomic Energy Authority in 1958 to become the Member for Research of the Central Electricity Generating Board (CEGB). At the CEGB Rotherham renewed his working association with C. Hinton, later Lord Hinton of Bankside. Hinton was Managing Director of the UKAEA, Industrial Group between 1954 and 1957. His departure to become Chairman of the CEGB preceded Rotherham's own transfer to that organisation by a year. Their subsequent collaborations resulted in several co-authored conference papers and publications.

In 1966 Hinton was appointed Chancellor of the newly established Bath University of Technology (later the University of Bath) and in 1969 Rotherham joined him as the institution's second Vice-Chancellor. He remained in this position until his retirement in 1976.

In recognition of his contributions to the fields of science and engineering Rotherham was elected to the Fellowship of the Royal Society in 1963 and became a Founder Fellow of the Fellowship of Engineering (later the Royal Academy of Engineering) in 1976. He was President of the Institution of Metallurgists, 1964 and the Institute of Metals, 1965. He served on the Defence Scientific Advisory Council, 1967-1977, the Central Advisory Council for Science and Technology, 1968-1970, and the Advisory Council for Applied Research and Development, 1976-1981.

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the contents list. It covers the period from 1932 to 1996.

Section A, Biographical, contains a small amount of material relating to various aspects of Rotherham's career. It includes correspondence and papers concerning Rotherham's appointments at Brown-Firth, the UKAEA and the CEGB, and his membership of professional societies and organisations. It also contains documentation, in photographic form, relating to his career between 1957 and 1967.

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Section B, Research, comprises a number of notebooks documenting Rotherham's scientific interests and study as an undergraduate and postgraduate at University College, London. The section also contains correspondence relating to the British Fast Reactor Project, a government initiative with which Rotherham became involved between 1975 and 1976. Rotherham's report on fast reactors, prepared in collaboration with C. Hinton, for the Cabinet Office is included in this section.

Section C, Publications, is composed of off-prints of Rotherham's contributions to various journals. Rotherham's collaborative work with his colleagues at the Brown-Firth Laboratories, the Royal Aircraft Establishment, the UK Atomic Energy Authority and the Central Electricity Generating Board is reflected in the number of jointly authored papers in this section. The section includes a small amount of correspondence with publishers.

Section D, Lectures and speeches, presents a good record of lectures, speeches and talks given by Rotherham throughout his later career. Drafts and final versions of most of Rotherham's lectures between 1951 and 1966 have been preserved. The sequence includes material relating to informal talks given by Rotherham to colleagues and members of staff within his own organisation. It also contains documentation of lectures he gave to a variety of professional audiences as a representative of the UKAEA and the CEGB and as President of the Institution of Metallurgists and the Institute of Metals. Rotherham delivered the 13th Hatfield Memorial Lecture in November 1960 and the 10th Coal Science Lecture in October 1961.

Section E, Visits and conferences, is composed of correspondence and papers relating to conferences and meetings attended by Rotherham between 1956 and 1969. Rotherham frequently contributed a talk or discussion paper to these conferences, most of which took place in the UK. The section includes material concerning two Royal Society Discussion Meetings, on heavy section steel structures and advanced methods of energy conversion chaired and organised by Rotherham in 1964 and 1965.

Section F, Societies and organisations, contains material relating to the various societies and organisations with which Rotherham was connected in an academic, professional or personal capacity. It includes a series of minutes and papers of the Central Advisory Council for Science and Technology of which Rotherham was a member between 1968 and 1970 and papers concerning the University Grants Committee Technology Sub-Committee on which Rotherham served for ten years from 1961.

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Section, G, Correspondence, contains a small amount of miscellaneous correspondence relating to a variety of topics including Institution of Metallurgists business, Windscale Nuclear Power Station, Rotherham's appointment to the Central Electricity Generating Board and the setting up of a Ministry of Defence Study Group.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Mr M. Rotherham for his assistance in making this material available.

L. Richmond

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SECTION A	BIOGRAPHICAL		A.1-A.59
	A.1-A.6	BIOGRAPHICAL AND PERSONAL	
	A.7-A.23	CAREER, HONOURS AND AWARDS	
	A.24-A.31	PERSONAL AND BUSINESS DOCUMENTS	
	A.32, A.33	DIARIES	
	A.34-A.59	PHOTOGRAPHS	
A.1-A.6	BIOGRAPHICAL	AND PERSONAL	1957-1996
A.1	2pp typescript cur	rriculum vitae, 1 July 1957.	
A.2	1p resumé public Memorial Lecture See also D.30-D.	city leaflet produced on the occasion of the 130, 29 November 1960.	th Hatfield
A.3	Who's Who 1996	entry, p 1675.	
A.4-A.6		re the assembling of information concerning Rois Royal Society biographical memoir, 1990-1991	
	Includes persona Rotherham's colle	al accounts of early collaborative projects by eagues.	some of

Three folders.

A.7-A.23	CAREER, HONOURS AND AWARDS	1934-1982	A.16	1957.
A.7-A.16	Correspondence <i>re</i> job applications, testimonials and letters of recommendation and appointment, 1934-1956.	f reference,		Correspondence <i>re</i> Rotherham's formal acceptance of an invitation to serve as a full-time member of the Central Electricity Generating Board (CEGB) from 1 April 1958. See also F.49.
A.7	1934.			
A.8	1935.		A.17	Correspondence, papers and certificate <i>re</i> Rotherham's admittance to the Fellowship of University College, London, February 1959.
A.9	1937.		A.18	Certificate <i>re</i> Rotherham's election as a Fellow of the Institute of Fuel, 21 May 1959.
	Deed of Agreement by which Rotherham was employed as assistant for a period of five years by Thomas Firth and John Atlas Works, Sheffield, 24 September 1937.	a technical Brown Ltd,	A.19	Certificate of life membership of the American Society of Mechanical Engineers, 27 August 1963.
A.10	1940.		A.20-A.22	Letters of congratulation on Rotherham's election to the Fellowship of the Royal Society, 1963.
A.11	1946-1948.			Three folders.
A.12	1950.		A.23	Letter from M. Thatcher, Prime Minister, on Rotherham's retirement from the Advisory Council for Applied Research and Development, 8 April 1982.
A.13	1952, 1953.			
			A.24-A.31	PERSONAL AND BUSINESS DOCUMENTS 1947-1980
A.14	1954.			
	Includes correspondence re Rotherham's appointment to the Director, Industrial Group, United Kingdom Atomic Energy (UKAEA).		A.24-A.26	Correspondence and papers $\it re$ various superannuation schemes and life assurance plans, 1947-1956.
	(ordinary).			Three folders.
A.15	1955, 1956.		A.27	'Woodlands.' Contents of folder so inscribed.
				Correspondence re the insurance, maintenance and sale of a property
				called 'Woodlands', Helsby, Cheshire, 1958-1959.

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A.28, A.29	'Stoneley.' Contents of folder so inscribed divided into two freference.	or ease of	A.36	Black and white photograph of HRH the Duke of Edinburgh leaving Bankside House, London, after attending an informal lunch with the Chairman, C. Hinton, and other members of the CEGB, 27 November 1958.
	Correspondence $\it re$ the insurance and maintenance of Rotherham Bickley, Kent, 1958-1963.	n's home in		
	Two folders.		A.37	Thirteen black and white photographs, with covering note, showing construction work at Hunterston, South of Scotland Electricity Board Nuclear Generating Station, 1959.
A.30	Driving licence, 1 January 1966-10 January 1969.			
A 24	Travel Olein Fernel Contents of folder as insatiled		A.38	Four black and white photographs taken during a visit by Rotherham to CEGB North Western Region, 8 September 1961.
A.31	'Travel Claim Forms'. Contents of folder so inscribed.			
	Correspondence re travel reimbursement arrangements in Rotherham's various professional activities, 1975-1980.	respect of	A.39	Black and white photograph, with covering correspondence, of Rotherham and colleagues at the Iron and Steel Institute Annual Dinner, 1961.
A.32, A.33	DIARIES	1970-1977	A.40	Five black and white photographs, with covering correspondence, of the official opening of the Central Electricity Research Laboratories (CERL), Leatherhead, Surrey, 10 May 1962.
A.32	Hardback desk diary. Used during 1970. Loose material intercalar	ted.		
			A.41	Black and white photograph of Rotherham and colleagues at the Iron and Steel Institute Annual Dinner, Grosvenor Hotel, London, 1 May 1963.
A.33	Hardback desk diary. Used August 1976-July 1977.			
A.34-A.59	PHOTOGRAPHS	1957-1967	A.42	Four black and white photographs, with covering letter, taken during a visit by Rotherham to CEGB North Eastern Region, Leeds, 13 November 1963.
	The presentation is chronological. Undated photographs can be f end of the sequence.	ound at the	A.43	Two black and white photographs taken during the Joint International Conference on Creep, New York, USA, 25-29 August 1963.
	end of the sequence.			See also C.27, E.81-E.84.
A.34	Two black and white UKAEA publicity photographs of Rotherha of Research and Development, Industrial Group, 4 March 1957.	m, Director	A.44	Eight black and white photographs taken during C. Hinton's visit to the Central Electricity Research Laboratories, Leatherhead, Surrey, 18 December 1963.
A.35	Black and white photograph and covering correspondence re R visit to CEGB North West, Merseyside and North Wal Headquarters, Manchester, 18 April 1958.		A.45	Black and white photograph taken during a visit by a delegation from the Czechoslovak Board of Energy to the Central Electricity Research
				Laboratories, Leatherhead, Surrey, 23 April 1964.

A.46	Two black and white photographs taken during Rotherham's visit to the laboratories of the CEGB North Western Region, Manchester, 8 July 1964.
A.47	Two black and white photographs, with covering correspondence, taken during Rotherham's visit to Brush Electrical Engineering Co Ltd, Falcon Works, Loughborough, Leicestershire, 25 September 1964.
A.48	Nineteen black and white photographs taken during a visit of electrical manufacturers to the Central Electricity Research Laboratories, Leatherhead, Surrey, 16 March 1965.
A.49	Seventeen black and white photographs, with covering letter, taken during CEGB North Western Region Annual Speech Day, Manchester, 26 March 1965.
	See also D.62-D.64.
A.50	Black and white photograph of Rotherham attending the Institute of Metals Autumn Meeting, Grenoble, France, 19-24 September 1965.
A.51	Black and white photograph of Rotherham receiving his certificate of Honorary Fellowship of the Institute of Welding, 1 November 1965.
A.52	Two black and white photographs of the 'BIOS' Dinner, 8 August 1966.
A.53	Colour photograph, with covering letter, of Rotherham and Japanese visitors, 22 May 1967.
A.54	Black and white photograph, with covering letter, taken during a visit by the CEGB Chairman to CEGB South Eastern Region Headquarters, October 1967.
A.55	Black and white photograph of Rotherham during a visit to the Hungarian Embassy, London, 12 December 1967.

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A.56	Formal black and white photograph of Rotherham with unidentified colleagues, nd.
A.57	Black and white photograph of Rotherham with unidentified group, nd.
A.58	Black and white photograph taken during ?Annual Dinner, Dorchester Hotel, London, nd.
\ .59	Various black and white CEGB publicity photographs of Rotherham, nd.

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SECTION B	RESEARCH	B.1-B.29
	B.1-B.19 B.20-B.29	NOTEBOOKS CORRESPONDENCE AND REPORTS
B.1-B.19	NOTEBOOKS	1932-1990
	been used by postgraduate at printed labels or of The Herbert S labels seem to books while he calculations. The notebooks	ebooks in this sub-section, though undated, appear to have Rotherham during his time as an undergraduate and University College, London. However many of them bear in the front cover indicating that they were once the property Strutt School, Belper, Derbyshire. Inscriptions added to these suggest that Rotherham first received them as exercise was at school and later used them for university notes and are presented in chronological order. Those without dates ad at the end of the sequence.
B.1		book containing notes on and results of scientific ed October 1932-March 1933.
B.2		ook containing scientific notes. Loose material intercalated sity of London sessional examination paper in physics, April
B.3		book containing notes on and results of scientific sed March 1933-March 1934.
B.4		book containing notes on and results of scientific ed April-May 1934.

B.5	Softback notebook containing scientific notes. Loose material intercalated includes University of London special intermediate examination paper in science, June 1935.
B.6	Hardback notebook containing scientific notes. Latest bibliographical reference 1939.
B.7	Hardback notebook containing scientific notes for a paper by Rotherham entitled 'Heat Treatment and Heat Transfer'. Used October 1945. Loose material <i>re</i> the publication of the paper intercalated.
B.8	Hardback notebook. Used October 1979-May 1983. Loose correspondence intercalated.
B.9	Hardback notebook. Used September 1983-December 1990. Loose material intercalated.
B.10	Softback notebook containing notes on viscosity, nd. Rotherham received a MSc Degree in 1935 for research on the viscosity of liquids.
B.11	Softback notebook containing scientific notes inscribed on the front cover 'Calculus, Trigonometry', nd.
B.12	Softback notebook containing scientific notes inscribed on the front cover 'Maths - Geom', nd.
B.13	Softback notebook containing scientific notes inscribed on the front cover 'Geometry', nd.
B.14	Softback notebook containing scientific notes inscribed on the front cover 'Scripture', nd.
B.15	Softback notebook containing scientific notes, nd.

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B.16	Softback notebook containing scientific notes entitled 'Third Term', nd.	B.23-B.26	'Cabinet Office - Fast Reactors.' Contents of folder so inscribed divided into four for ease of reference.
B.17	Softback notebook containing notes entitled 'Nuclear Physics', nd.		Correspondence and papers re the British Fast Reactor Project, 1975-1976.
D.17	Softback Holebook Containing Holes entitled Nuclear Physics, IId.		Rotherham agreed to undertake a personal investigation (in collaboration with C. Hinton) into the prospects for a UK commercial fast reactor.
B.18	Softback notebook containing notes entitled 'Modern Electricity, nd.		Includes 27pp typescript report by C. Hinton and Rotherham and copy of 7pp typescript entitled 'Analysis of Proposals for Rehabilitation of the Prototype Fast Reactor at Dounreay' by C. Hinton.
B.19	Hardback notebook containing scientific notes, nd.		Four folders.
B.20-B.29	CORRESPONDENCE AND REPORTS 1949-1979	B.27	4pp typescript report and accompanying research material re a visit by Rotherham, L. Atkinson and T. Knapp to NEI Parsons Ltd, Newcastle, to discuss six flow versus four flow turbine generator designs as part of a Central Policy Review Staff (Cabinet Office) investigation, 27 November 1978.
	The presentation is chronological.		1970.
B.20	Significance of the Parameter Sigma; in the Relationship between Initial Susceptibility and the Variation of Remanence with Tensile Stress, W. Koster (translated by R. C. Murray), Royal Aircraft Establishment, August 1949.	B.28	33pp report entitled 'Export of Four and Six Exhaust Steam Turbines: Information Relating to the Comparative Export Potential of Four and Six Exhaust Steam Turbines of Designs Similar to those considered for Heysham/Torness Powers Stations', January 1979.
B.21, B.22	Correspondence <i>re</i> the Central Electricity Generating Board Research and Development Programme 1957-1958.	B.29	11pp typescript entitled 'Working Group Report (4th Draft)' re the contribution of applied research and development to industrial innovation with manuscript draft notes, nd.
	Principally copies of letters between F. H. S. Brown and C. Hinton <i>re</i> CEGB research activities, sent to Rotherham for information on the commencement of his appointment at CEGB.		
	See also F.49-F.56.		
	Two folders.		

SECTION C	PUBLICATIONS	C.1-C.41	C.5	'Internal Friction and Grain-Boundary Viscosity of Tin', L. Rotherham, A. D. N. Smith and G. B. Greenough, <i>Journal of the Institute of Metals</i> 79(6) , 1951.
	copies of papers and other publications written and co-authored by small amount of correspondence with publishers concerning lus journals.		C.6	'Ceramics for Gas Turbines', L. Rotherham, W. Watt, J. P. Roberts and F. J. Bradshaw, Symposium on High-Temperature Steels and Alloys for Gas Turbines Special Report 43, 1951.
	C.1-C.36 OFF-PRINTS C.37-C.41 DRAFTS AND CORRESPONDENCE		C.7	'The Solid Solubility of Silver in Aluminium', L. Rotherham and L. W. Larke, Journal of the Institute of Metals 81 , 1952-53.
C.1-C.36	OFF-PRINTS	1942-1984	C.8	'Metallurgical Trends of Interest to Chemical Engineers', L. Rotherham, Chemistry and Industry pp 1164-1170, 1954.
	A chronological sequence of off-prints, reprints etc of publications. Not a complete sequence.	Rotherham's	C.9	'Some Applications of Welding in the Development of Atomic Energy', L. Rotherham, <i>British Welding Journal</i> , September 1955.
C.1	The Damping Capacity of Engineering Materials, W. H. Stanfield and L. Rotherham, North East Coast Institution of Enshipbuilders, 1942.		C.10	'Internal Friction and Grain Boundary Viscosity of Silver and Binary Silver Solid Solutions', S. Pearson and L. Rotherham, <i>Journal of Metals</i> , August 1956.
	W. H. Hatfield was Rotherham's supervisor at the Brown-Firth L Sheffield, 1935-1946.	aboratories,	C.11	'Internal Friction and Grain Boundary Viscosity of Copper and Binary Copper Solid Solutions', L. Rotherham and S. Pearson, <i>Journal of Metals</i> , August 1956.
C.2	Further Experiments on the Damping Capacity of Metals, W. H. Rotherham and E. M. A. Harvey, North East Coast Institution of and Shipbuilders, 1944.		C.12	'Applied Research and Development Within the Industrial Group of the UK Atomic Energy Authority', L. Rotherham and A. B. McIntosh, <i>Nature</i> 178 524-527, September 1956.
C.3	'A Rapid Method for the Analysis of Light Alloys, Based on Elect Resistivity', L. Rotherham and J. Morley, <i>Journal of the Institute</i> 73(4) , 1946.			See also C.37.
C.4	Creep of Metals, L. Rotherham, Institute of Physics, 1951.		C.13	'The Calder Reactors: Research and Development Problems', L. Rotherham, <i>Nature</i> 178 825-828, October 1956. See also C.38.

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C.14	'The Role of Metallurgy in a Nuclear Energy Project', L. Rotherham, <i>Journal of Applied Physics</i> Supplement 5 S91-S95, 1956.	C.24	'Energy for the World's Needs', L. Rotherham, Contemporary Physics 2(2) 81-92, December 1960.
C.15	'Metallurgical Problems of Atomic Energy', L. Rotherham, <i>Journal of the Institute of Metals</i> 85 393-396, 1956-57.	C.25	'The Contribution of Metallurgy to Electric Power Generation', L. Rotherham, Journal of the Iron and Steel Institute 197, February 1961.
C.16	'Calder Hall Nuclear Power Station', L. Rotherham, <i>Science</i> 125 (3245) 452-454, 8 March 1957.	C.26	'High-Strength Steels', L. Rotherham, <i>Journal of the Iron and Steel Institute</i> , January 1963.
C.17	'The First Nuclear Power Stations: Calder Hall', L. Rotherham, Organisation for European Economic Co-operation Information Conference on Nuclear Energy for Management, Paris, France, 2 April 1957. See also E.9-E.11.	C.27	'Some High-Temperature Research Problems for an Expanding Electrical Power Industry', L. Rotherham, Institution of Mechanical Engineers, 1963. See also E.81-E.84.
C.18	'The First Nuclear Power Stations: Calder Hall', L. Rotherham, <i>The Industrial Challenge of Nuclear Energy</i> pp 111-119, July 1957.	C.28	'Some Advances in Metallurgical Practice Introduced for Nuclear Engineering', L. Rotherham, <i>Journal of the Institute of Metals</i> 92 , 1963-64.
C.19	'Metallurgical Problems of Atomic Energy', L. Rotherham, <i>Journal of the Institute of Metals</i> , May 1957.	C.29	'The Growth of Qualified Manpower and the Role of the Professional Institutions', L. Rotherham, <i>The Metallurgist</i> , July 1964.
C.20	'Application of Welding in the Atomic Energy Field', L. Rotherham and I. H. Hogg, British Commonwealth Welding Conference 1957.	C.30	'The Brittle Fracture of Steel', L. Rotherham, nd latest bibliographical reference 1964.
C.21	'The Physicist in the Industrial Group of the UK Atomic Energy Authority', L. Rotherham and T. Edge, <i>Bulletin of the Institute of Physics</i> pp60-65, March 1958.	C.31	'Presidential Address: Science and Industry', L. Rotherham, <i>Journal of the Institute of Metals</i> 93 369-375, 1964-65.
C.22	'A Review of the Future of Nuclear Reactor Systems in the Light of the Available Research and Operating Experience', C. Hinton and L. Rotherham, World Power Conference Paper 48/B ₃ /5, 1958.	C.32	'A Discussion on Damage and Failure Mechanisms of Heavy-Section Steel Organized by L. Rotherham, FRS', <i>Proceedings of the Royal Society</i> 285(A) 1-174, 1965.
	See also E.18-E.22.	C.33	'Electricity's Nationwide Research Programme', L. Rotherham, <i>Metals and Materials</i> , January 1967.
C.23	'The Research Branch of the Industrial Group of the United Kingdom Atomic Energy Agency', L. Rotherham, <i>Proceedings of the Royal Society</i> 249(A) 1-15, 1958.		

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C.34	'A Discussion on Advanced Methods of Energy Conversion - Magneto- hydrodynamic Power Generation Organized by L. Rotherham, FRS', Philosophical Transactions of the Royal Society 261(A) 345-582, July 1967. See also E.114-E.130.
C.35	'Supply Industry Research Benefits Overseas Buyers', L. Rotherham, Electrical Times 155(18) 72-77, 1 May 1969.
C.36	Research and Innovation: A Record of The Wolfson Technological Projects Scheme 1968-1981, L. Rotherham, Oxford Science Publications, 1984. See also F.75-F.77.
C.37-C.41	DRAFTS AND CORRESPONDENCE 1956-1957
C.37	8pp typescript entitled 'Organisation and Management of Applied Research and Development within the Industrial Group of the UKAEA' by L. Rotherham and A. B. McIntosh with covering correspondence <i>re</i> its publication in <i>Nature</i> , 1956. See also C.12.
C.38	Two versions, 5pp and 10pp, of a typescript entitled "The Calder Reactors: Research and Development Problems' by L. Rotherham and covering correspondence <i>re</i> publication, 1956. See also C.13.
C.39	10pp typescript entitled 'Metallurgical Problems of Atomic Energy' with covering note <i>re</i> publication, February 1957.
C.40	Two versions, 7pp and 5pp, of a typescript draft with amendments entitled 'Careers for Young Scientists in Atomic Energy' by L. Rotherham and covering correspondence <i>re</i> publication, 1957.
C.41	2pp typescript list of papers by Rotherham published in various journals, 1946-1955.

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SECTION D LECTURES AND SPEECHES

This section contains material relating to lectures, speeches and broadcasts delivered by Rotherham at various events and venues. For documentation of larger meetings and conferences at which Rotherham was one of several speakers see Visits and Conferences.

D.1-D.75

D.1-D.69 DRAFTS

D.70-D.75 CORRESPONDENCE

D.1-D.69	DRAFTS	1951-1966
D.1, D.2	'Titanium', College of Aeronautics, 1951.	
D.1	6pp typescript (annotated) with illustrative figures.	
D.2	Correspondence arising.	
D.3	'The Role of Metallurgy in a Nuclear Energy Project', ICI Scien [London], 7 February 1957.	tific Society,
	13pp typescript with appendix.	
D.4, D.5	'Metallurgical Problems of Atomic Energy', Institute of Meta February 1957.	als, London,
D.4	10pp typescript (annotated) with manuscript notes and corrarising.	respondence
5.5		
D.5	10pp typescript prepared by Rotherham for publication.	

D.6-D.9	The Axel Ax:son Johnson Lecture, Stockholm, Sweden, 15 March 1957.	D.15	Various manuscript and typescript drafts and notes.
	C. Hinton, Managing Director, Industrial Group, UKAEA, gave a lecture entitled 'The Future of Nuclear Power'. Rotherham worked on the preparation of the lecture with Hinton.	D.16	Two versions, 19pp and 11pp, of typescript lecture.
D.6	Typescript and manuscript note entitled 'Draft for Managing Director's Swedish Lecture'.	D.17	Correspondence and papers arising.
D.7, D.8	Various typescript drafts. Two folders.	D.18	'What is a Metallurgist?', Institution of Metallurgists, London Group, London, 10 December 1959.
			Typescript and manuscript notes with correspondence re arrangements.
D.9	Copies of published text.	D.19, D.20	'Are We Making the Best of Our Research Resources?', Institution of Electrical Engineers, London, 22 February 1960.
D.10-D.13	Radiodiffusion Télévision Française (RDTF), August 1957.	D.19	Correspondence re arrangements and 9pp typescript.
	Rotherham was invited to write three talks on nuclear centres to be translated into French and broadcast as part of a series on atomic industries	D. 19	correspondence re arrangements and app typescript.
	in different countries.	D.20	Correspondence arising.
D.10	Correspondence re arrangements.		
		D.21	'Radiation Effects in Solids', Sheffield Metallurgical Association, Sheffield, 4 October 1960.
D.10 D.11	Correspondence <i>re</i> arrangements. Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion Télévision Française August 1957: First Talk' with amendments.	D.21	
	Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion	D.21 D.22-D.24	October 1960.
D.11	Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion Télévision Française August 1957: First Talk' with amendments. Two versions, 6pp and 3pp, of a typescript entitled 'RDTF - Second Talk		October 1960. 13pp typescript notes and correspondence <i>re</i> arrangements. 'The Implications of the Nuclear Power Programme', Science Masters
D.11 D.12	Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion Télévision Française August 1957: First Talk' with amendments. Two versions, 6pp and 3pp, of a typescript entitled 'RDTF - Second Talk August 1957' with amendments. Two versions, 6pp and 4pp, of a typescript entitled 'Third Talk for RDTF -	D.22-D.24	October 1960. 13pp typescript notes and correspondence <i>re</i> arrangements. 'The Implications of the Nuclear Power Programme', Science Masters Association, London, 6 October 1960.
D.11 D.12	Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion Télévision Française August 1957: First Talk' with amendments. Two versions, 6pp and 3pp, of a typescript entitled 'RDTF - Second Talk August 1957' with amendments. Two versions, 6pp and 4pp, of a typescript entitled 'Third Talk for RDTF -	D.22-D.24 D.22	October 1960. 13pp typescript notes and correspondence <i>re</i> arrangements. 'The Implications of the Nuclear Power Programme', Science Masters Association, London, 6 October 1960. Correspondence and papers <i>re</i> arrangements.
D.11 D.12 D.13	Two versions, 5pp and 4pp, of a typescript entitled 'Radiodiffusion Télévision Française August 1957: First Talk' with amendments. Two versions, 6pp and 3pp, of a typescript entitled 'RDTF - Second Talk August 1957' with amendments. Two versions, 6pp and 4pp, of a typescript entitled 'Third Talk for RDTF - August 1857' with amendments.	D.22-D.24 D.22	October 1960. 13pp typescript notes and correspondence <i>re</i> arrangements. 'The Implications of the Nuclear Power Programme', Science Masters Association, London, 6 October 1960. Correspondence and papers <i>re</i> arrangements.

D.25-D.29	'Metallurgical Problems in the Generation of Electricity', Institute of Metals (Oxford Section), 6 November 1962.
D.25	Correspondence re arrangements.
D.26, D.27	Central Electricity Research Laboratories reports sent to Rotherham for information. Two folders.
D.28	Various manuscript and typescript notes and drafts.
D.29	Correspondence arising.
D.30-D.33	'The Contribution of Metallurgy to Electric Power Generation', 13th Hatfield Memorial Lecture, Iron and Steel Institute, London, 29 November 1960.
D.30, D.31	Correspondence and papers <i>re</i> arrangements. Two folders.
D.32	15pp typescript.
D.33	Correspondence arising including published text of lecture.
D.34	'The Research Programme of the Central Electricity Generating Board', UKAEA Atomic Energy Research Establishment, Harwell, Berkshire, 14 December 1960. Correspondence <i>re</i> arrangements and 6pp typescript.
D.35, D.36	Introductory speech in a series of ten lectures on reactor fuel element technology, Imperial College, London, 4 May 1961.

Correspondence re arrangements and lecture programme.

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D.36	13pp typescript (annotated) draft.
D.37, D.38	Talk to section heads <i>re</i> research and development at the Central Electricity Generating Board Central Electricity Research Laboratories, Leatherhead, Surrey, 25 May 1961.
D.37	Letter re arrangements.
D.38	Manuscript notes and 4pp untitled typescript draft.
D.39-D.43	'The Position of Coal in Electric Power Generation', British Coal Utilisation Research Association (BCURA) 10th Coal Science Lecture, London, 11 October 1961.
D.39, D.40	Correspondence and papers re arrangements.
	Two folders.
D.41	13pp typescript (annotated) with draft illustrative figures.
D.42	Correspondence and papers arising.
D.43	BCURA Quarterly Gazette, 44, 1961 containing published text and photographs.
D.44	'Engineering Metallurgy', Central Electricity Research Laboratories, Leatherhead, Surrey, 15 December 1961.
	20pp typescript draft.

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D.45, D.46	Talk on CEGB research, National Joint Advisory Council for the Electricity Supply Industry General Purposes Committees, London, 30 November 1962.
	Rotherham was subsequently requested by the Council to submit a paper on the economic benefits of research.
D.45	Letter re arrangements and 1p typescript notes.
D.46	Correspondence <i>re</i> the drafting of a paper by committee with 10pp typescript entitled 'Economic Benefits of Research: A memorandum by L. Rotherham'.
D.47	Lecture on the CEGB research programme, Atomic Energy Research Establishment, Harwell, Berkshire, 29 October 1963.
	Correspondence re arrangements.
D.48-D.50	'The Growth of Qualified Manpower and the Role of the Professional Institutions', Institute of Metallurgists, London, 13 May 1964.
D.48	Correspondence <i>re</i> arrangements.
D.49	12pp typescript with 1p typescript notes.
D.50	Published text of lecture.
D.51-D.53	Talk on reactor materials research, Institute of Metals, Sheffield Local Section, 14 January 1965.
D.51	Correspondence re arrangements.
D.52, D.53	Various versions of typescript talk. Two folders.

D.54, D.55	'The Structure of the Electricity Supply Industry and the Trend of Technical Developments', University of Manchester Extra-Mural Department: Management Forum, Manchester, 9 February 1965.
D.54	Correspondence re arrangements.
D.55	38pp typescript.
D.56-D.61	'Science and Industry', Institute of Metals, London, 9 March 1965.
D.56	Correspondence re arrangements.
D.57	20pp typescript draft with illustrative figures.
D.58	32pp typescript draft with amendments.
D.59	9pp typescript with illustrative figures.
D.60	Correspondence arising.
D.61	Published lecture.
D.62-D.64	Address, Central Electricity Generating Board Annual Speech Day (North West Region), Manchester, 26 March 1965.
	See also A.49.
D.62	Correspondence and papers re arrangements and programme.
D.63	Various typescript versions of Rotherham's address.
D.64	Correspondence and papers arising. Includes 3pp typescript.

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D.65, D.66	Speech to students and apprentices at the annual prize-giving event held b G. A. Harvey Group of Companies, London, 11 March 1966.
D.65	Correspondence <i>re</i> arrangements.
D.66	5pp untitled typescript.
D.67-D.69	Institute of Metals, Scottish Local Section, Glasgow, 11 October 1966.
	Rotherham gave a lecture entitled 'Metallurgical research in the Centra Electricity Generating Board.
D.67	Correspondence <i>re</i> arrangements.
D.68	7pp typescript lecture with illustrative figures and slide list.
D.69	Correspondence arising.
D.70-D.75	CORRESPONDENCE 1956-195
D.70-D.75	Correspondence and papers <i>re</i> CEGB policy on lectures given by members of staff, arrangements for lectures at conferences and meetings, invitations to attend lectures to be given by Rotherham's colleagues and requests to give lectures on various occasions.
	Includes published texts of lectures given by C. Hinton.
	Six folders.

SECTION E VISITS AND CONFERENCES E.1-E.157

A chronological sequence of correspondence and papers relating to visits made and conferences attended by Rotherham, 1956-1969.

E.1, E.2	Institute of Physics Conference on the Physics of Nuclear Reactors, London, 3-6 July 1956.
	Rotherham gave a talk entitled 'The Role of Metallurgy in a Nuclear Energy Project'.
E.1	Correspondence re arrangements and programme.
E.2	11pp typescript talk.

E.3, E.4	Meeting of the British Association for the Advancement of Scier Sheffield, 3 September 1956.	ıce,
	Rotherham gave a talk entitled 'The Role of Metallurgy in a Nuclear Ene Project'.	rgy

E.4	1p typescript (annotated) draft talk.

Correspondence re arrangements.

November 1956.

E.3

E.5

Rotherham	was	invited	to	contribute	а	report	on	the	conference	foi
publication i	in <i>Sci</i>	ence.				•				

British Nuclear Energy Conference: Calder Hall Symposium, London, 22-23

Two typescript versions of report and correspondence.

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E.6-E.8	Advanced-Type Reactor Systems Conference with Industry, Harwell, Berkshire, 30 November 1956. Rotherham gave a short talk on the sodium-graphite system.
E.6, E.7	Programme and papers prepared for the conference. Two folders.
E.8	Various manuscript and typescript versions of Rotherham's paper.

E.9-E.11 Organisation for European Economic Co-operation (OEEC) Information Conference on Nuclear Energy for Management, Paris, France, 2 April 1957.

Rotherham gave a talk entitled 'The First Nuclear Power Stations: Calder Hall'.

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See also C.17.

E.9 Correspondence re arrangements.

E.10 Two typescript versions, 3pp and 12pp, of Rotherham's talk.

E.11 Published text.

E.12-E.17 Portugal 1957.

E.13

Rotherham was invited to give a series of four lectures during a visit to

Portugal which included trips to Lisbon and Coimbra.

E.12 Correspondence re arrangements.

See also D.66-D.71.

Two versions, both 10pp, of a typescript entitled 'The Development of Gas-Cooled Reactors for Nuclear Power' with typescript and manuscript notes.

E.14	Two versions, both 7pp, of a typescript entitled 'Future Development of Gas-Cooled Reactors for Power Production'.							
E.15	11pp typescript entitled 'Metallurgy and Atomic Energy' with 2pp appendix.							
E.16	13pp typescript entitled 'Chemistry in Atomic Energy'.							
E.17	Portuguese translations of Rotherham's lectures with covering correspondence.							
E.18-E.22	World Power Conference, Montreal, Canada, 7-11 September 1958.							
	Rotherham submitted a paper jointly with C. Hinton entitled 'A Review of the Future of Nuclear Reactor Systems in the Light of the Available Research and Operating Experience'.							
	See also C.22.							
E.18	Correspondence re arrangements.							
E.19	16pp typescript draft paper with architectural drawings.							
E.20	18pp typescript (annotated) draft paper with 3pp typescript notes.							
E.21	4pp typescript comments on the paper by C. P. Haigh.							
E.22	Published text (annotated).							
E.23, E.24	Conference of University Professors: Research Problems of the Supply Industry, London, 27-28 November 1958.							
	Rotherham delivered a lecture entitled 'Research Problems of the Supply Industry'.							

Correspondence re arrangements and programme.

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E.24	Correspondence arising and copy of published proceedings.	E.32, E.33	Public Schools Career Masters Convention, London, 4-8 April 1960.		
E.25, E.26	Administrative Staff College Senior Conference on Expansion, Henley on Thames, Oxfordshire, 7-10 July 1959.		Rotherham gave an opening talk entitled 'Research and Development' during a visit by the convention to the Central Electricity Research Laboratories, Leatherhead, Surrey.		
	Rotherham gave a talk on scientific development.	E.32	Programme and correspondence re arrangements.		
E.25	Programme and correspondence <i>re</i> arrangements.	E.33	4pp typescript of Rotherham's talk.		
E.26	Letter of thanks.	E.34-E.37	London School of Economics and Political Science Seminar on Problems in Industrial Administration, London, 24 May 1960.		
E.27, E.28	National Union of Mineworkers Summer School: The Future of Nuclear Energy, Bingley, Yorkshire, 18-24 July 1959.		Rotherham gave a talk entitled 'Economics and Organisation of Industrial Research'.		
	Rotherham gave a talk entitled 'The Future of Nuclear Power'.	E.34	Correspondence <i>re</i> arrangements.		
E.27	Correspondence <i>re</i> arrangements and programme.				
		E.35	11pp typescript notes for discussion.		
E.28	2pp typescript summary of Rotherham's talk with covering correspondence.				
		E.36	18pp typescript talk.		
E.29-E.31	University Institute of Education Oxford Summer Conference on Science as a General Study in the 6th Form, Oxford, 26 July-1 August 1959.	E.37	Correspondence arising.		
	Rotherham gave a talk entitled 'The World's Power Problems'.	_10.			
E.29	Correspondence <i>re</i> arrangements and programme.	E.38-E.42	World Power Conference, Madrid, Spain, 5-9 June 1960.		
E.30	Two versions, 17pp and 19pp, draft typescript.		Rotherham presented a joint paper entitled 'The Economics of Nuclear Power in Great Britain' with C. Hinton and F. H. S. Brown.		
2.00	Two voisions, Tryp and Tsyp, diant typesonipt.	E.38-E.40	Correspondence <i>re</i> arrangements.		
E.31	Correspondence and papers arising.	2.00 2.10	Three folders.		
	Consepondence and papers directly.		55 (5.05)5.		
		E.41	2pp typescript talk with illustrative figures.		
		E.42	Published text.		

E.43-E.45	Central Electricity Generating Board Regional Management Conference (Midlands and East Midlands Region), Stratford upon Avon, 17-18 October 1960.	E.51	Regional Advisory Council for Technological Education Conference on Applied Nuclear Science, Kingston upon Thames, Surrey, 26 May 1961.
	Rotherham gave a talk on research and development.		Rotherham gave a talk on the UK Nuclear Power Programme.
	rediction and gave a talk of recoal of and activity months.		Correspondence and papers <i>re</i> arrangements.
E.43	Correspondence re arrangements and programme.		
E.44	10pp typescript (annotated) talk.	E.52	International Conference on the Properties of Reactor Materials, Berkeley Castle, Gloucestershire, 1 June 1961.
2	Topp typocompt (alliforated) talle.		22pp typescript entitled 'Materials Problems of Nuclear Power - Historical', with correspondence arising.
E.45	Letter of thanks and correspondence arising.		
E.46-E.48	School of Welding Technology Course, London, 27 February-3 March 1961.	E.53, E.54	Conference of Supply Industry Delegates to the British Electrical Power Convention, Eastbourne, Sussex, 12 June 1961.
2.10 2.10	Rotherham gave the opening address.		Rotherham gave a talk on research.
	nondinan gare and sporing database	E.53	Correspondence <i>re</i> arrangements.
E.46	Programme and correspondence <i>re</i> arrangements.	2.00	consoperation of an angenion as
E.47	Correspondence re slides to accompany Rotherham's speech.	E.54	3pp typescript draft talk with typescript notes.
E.48	3pp manuscript and typescript notes.	E.55-E.57	European Atomic Energy Society Enlarged Symposium on Principles, Implementation and Trends of National Nuclear Programs, Lisbon, Portugal, 16-20 October 1961.
E.49, E.50	Central Electricity Generating Board Management Conference for Station Superintendents (Midlands Region), Château Impney, Worcestershire, 10-		Rotherham gave a lecture entitled 'Relations between the Atomic Energy Authority, the Central Electricity Generating Board and Industrial Consortia'.
	11 May 1961.	E.55	Correspondence re arrangements and the contents of Rotherham's lecture.
	Rotherham was due to give a talk but was forced to withdraw as a result of a car accident. His place was taken by C. P. Haigh.		
E.49	Correspondence re arrangements and programme.	E.56	Programme and list of participants.
E.50	9pp typescript entitled 'Research and Development' with amendments.	E.57	5pp typescript draft lecture with amendments.

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E.58-E.62	Conference of University Professors, London, 9-10 November 1961.	E.68-E.76	Royal Society of Health 69th Health Congress, Scarborough, Yorkshire, 9-13 April 1962.
	Rotherham gave a talk entitled 'Research in the Electricity Supply Industry'.		Rotherham gave the presidential address to the Radiation Section of the
E.58	Correspondence and papers <i>re</i> arrangements and programme.		Congress.
2.30	Correspondence and papers re analigements and programme.	5 00 5 T4	
E.59	14pp typescript of C. Hinton's introductory address entitled 'Some Points of	E.68-E.71	Correspondence <i>re</i> arrangements and programme. Includes drafts of papers prepared for presentation at the Congress and sent to Rotherham for comment and information.
	Interest in the Design and Operation of the Central Electricity Generating Board's System'.		Four folders.
E.60	49pp typescript transcript of conference proceedings on the morning of 10 November including Rotherham's talk.	E.72	Papers for discussion.
		E.73	Exhibition catalogue.
E.61	Correspondence and papers arising. Includes 4pp typescript of Rotherham's talk.	L.73	Exhibition catalogue.
	taik.		V
		E.74	Various typescript drafts (annotated) entitled 'Introductory Talk to Radiation Section'.
E.62	Published conference proceedings.		
		E.75	Published text of Rotherham's presidential address.
E.63	Central Electricity Generating Board Headquarters Local Advisory Committee Annual General Meeting of Employees, London, 14 November 1961.		
	Correspondence re arrangements and 3pp typescript notes re CEGB	E.76	Letters of thanks and correspondence arising.
	research programmes.		
		E.77-E.80	British Electrical Power Convention, Torquay, Devon, 16-20 June 1963.
E.64-E.67	Institute of Metals Symposium on Uranium and Graphite, London, 21 March 1962.		Rotherham co-authored a paper entitled 'Research and Design in the Electricity Supply Industry' with G. N. Green and E. S. Booth.
	Rotherham gave an introductory talk.	E.77	Correspondence <i>re</i> arrangements.
F.04 F.05		L.//	Correspondence re arrangements.
E.64, E.65	Correspondence and papers <i>re</i> arrangements and the contents of Rotherham's talk.		
	Two folders.	E.78, E.79	Correspondence and papers <i>re</i> collaboration and composition of joint paper. Includes various typescript versions of draft paper.
			Two folders.
E.66	2pp untitled typescript talk with list of available graphite illustrations.		
		E.80	Correspondence and papers arising.
E.67	Correspondence and papers arising.		•

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E.81-E.84	Joint International Conference on Creep, New York, USA, 25-29 August 1963.
	Rotherham delivered the American Society of Mechanical Engineers Calvin Rice Lecture entitled 'Some High Temperature Research Problems for an Expanding Electrical Power Industry' to the Conference, 17 August.
	See also A.43, C.27.
E.81	Correspondence <i>re</i> arrangements. Includes 27pp typescript entitled 'The Research Worker and His Community', by N. P. Allen and C. H. Shumaker.
E.82	19pp typescript of Rotherham's lecture.
E.83	Correspondence arising.
E.84	Published text of lecture.
E.85-E.90	Institute of Metals Autumn Meeting, Milan, Italy, 22-27 September 1963.
E.85-E.90	Institute of Metals Autumn Meeting, Milan, Italy, 22-27 September 1963. Rotherham delivered the 2nd Metallurgical Engineering Lecture entitled 'Some Advances in Metallurgical Practice Introduced for Nuclear Engineering', 23 September.
E.85-E.90 E.85	Rotherham delivered the 2nd Metallurgical Engineering Lecture entitled Some Advances in Metallurgical Practice Introduced for Nuclear
	Rotherham delivered the 2nd Metallurgical Engineering Lecture entitled 'Some Advances in Metallurgical Practice Introduced for Nuclear Engineering', 23 September.
E.85	Rotherham delivered the 2nd Metallurgical Engineering Lecture entitled 'Some Advances in Metallurgical Practice Introduced for Nuclear Engineering', 23 September. Correspondence <i>re</i> arrangements and programme.
E.85	Rotherham delivered the 2nd Metallurgical Engineering Lecture entitled 'Some Advances in Metallurgical Practice Introduced for Nuclear Engineering', 23 September. Correspondence <i>re</i> arrangements and programme. 44pp typescript with manuscript notes and amendments entitled 'Metallurgical Engineering Lecture'. 8pp typescript entitled 'Advances in Metallurgical Practice Introduced by

E.91-E.95	Royal Society Discussion Meeting on Damage and Failure Mechanisms of Heavy Section Steel Structures, London, 28 May 1964.		
	The meeting was organised and chaired by Rotherham.		
E.91	Programme and 2pp typescript notes.		
E.92, E.93	Correspondence and papers re arrangements.		
	Two folders.		
E.94	Correspondence arising. Principally \emph{re} the preparation and publication of proceedings.		
E.95	Proceedings of the Royal Society, Series A, 285 (1400), 16 April 1965.		
E.96-E.98	British Iron and Steel Federation 2nd Industry/University Conference,		
2.00 2.00	Ashorne Hill, Learnington Spa, Warwickshire, 27-28 September 1964.		
	Rotherham gave the closing address.		
E.96, E.97	Correspondence and papers re arrangements.		
	Two folders.		
F 00			
E.98	9pp typescript (annotated) entitled 'Notes for Closing Address' with manuscript notes and illustrative figures.		
E.99	Correspondence and papers arising.		

Published text of Rotherham's lecture.

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E.100-E.105	The Challenge of Modern Engineering: Royal Society Conference for Headmasters and Headmistresses, Cambridge, 29-31 March 1965.	E.110	10pp typescript notes entitled 'Power Transmission - The Dilemma' with list of slides and 1p manuscript notes.
	Rotherham gave a talk on research.		
E.100-E.102	Correspondence and papers <i>re</i> arrangements.	E.111	Letter of thanks.
	Three folders.	E.112, E.113	Conference on Fuel Research, Eastbourne, Sussex, 4-8 October 1965.
E.103	4pp manuscript draft entitled 'The Challenge of Modern Engineering - Research Aspects'.		Rotherham presented a paper entitled 'The Organisation of Research in the Central Electricity Generating Board' written jointly with D. J. V. Murray.
		E.112	Correspondence and papers re arrangements.
E.104	Correspondence arising.		
		E.113	Three typescript versions of joint paper.
E.105	Conference proceedings.	E.114-E.130	Royal Society Discussion Meeting on Advanced Methods of Energy
E.106-E.108	HM Treasury Training and Education Division Organisation and	E.114-E.130	Conversion - Magneto-hydrodynamic Power Generation, London, 4 November 1965.
	Management Course, Cambridge, 29 March-9 April 1965. Rotherham gave a lecture entitled 'The Principles and Organisation of a		The meeting was organised and chaired by Rotherham.
	Research Department'.		See also C.34.
E.106	Correspondence and papers re arrangements.	E.114	Programme and invitation list.
F 107	22pp typoparint lockure with illustrative figures	E.115	List of contributors.
E.107	22pp typescript lecture with illustrative figures.	E.113	List of contributors.
E.108	Letter of thanks.	E.116	Chairman's notes and points for the final summary.
E.109-E.111	European Symposium on Electrical Conduction at Low Temperatures, London, 20-21 May 1965.	E.117-E.121	Correspondence and papers <i>re</i> arrangements. Includes summaries of papers to be given at the meeting.
	Rotherham gave the opening address.		Five folders.
E.109	Correspondence and papers re arrangements and programme.		
		E.122-E.130	Correspondence and papers arising. Principally re the preparation and publication of proceedings.
			Nine folders.

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E.131, E.132	Institution of Electrical Engineers Research Discussion Meeting, London, 4 November 1965.
	Rotherham gave an introductory talk.
E.131	Correspondence and papers re arrangements.
E.132	Two versions, 4pp and 6pp, of a typescript entitled 'The Selection of Topics for Research in Electrical and Electronic Engineering'.
E.133	Electrical Power Engineers Association Leatherhead and Guildford HQ Section Annual General Meeting, Leatherhead, Surrey, 1 December 1965.
	Rotherham gave a talk on research and development in the electrical supply industry.
	Agenda and letter of thanks.
E.134, E.135	6th Ordinary Meeting of the Royal Society of Edinburgh, Edinburgh, 2 May 1966.
	Rotherham gave a lecture entitled 'Some Aerodynamic Studies in the Electricity Supply Industry'.
E.134	Correspondence <i>re</i> arrangements.
E.135	28pp typescript (annotated) lecture with typescript notes and list of slides.
E.136-E.138	University of Southampton Appointments Board Annual Meeting, Southampton, 23 November 1966.
	Rotherham attended as a guest speaker. He gave a talk entitled 'The Graduate in an Industrial Setting'.
E.136	Correspondence and papers <i>re</i> arrangements.
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15pp typescript lecture notes.

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E.137

E.138	Letter of thanks.				
E.139, E.140	Science of Science Foundation Postgraduate Seminar, Imperial College of Science and Technology, London, 22 March 1967.				
	Rotherham gave a lecture entitled 'Formulating a Research and Development Policy'.				
E.139	Correspondence re arrangements.				
E.140	15pp typescript (annotated) lecture.				
E.141-E.143	Electricity Council Spring School, Cambridge, 5-13 April 1967.				
	Rotherham gave a lecture on research and development.				
E.141	Correspondence re arrangements.				
E.142	Programme and summaries of lectures.				
E.143	Various typescript drafts entitled 'Research and Development'.				
E.144, E.145	Southern Electricity Board Senior Management Conference, Maidenhead, Berkshire, 3-4 May 1967.				
	Rotherham gave a talk on distribution and appliance research.				
E.144	Correspondence and papers <i>re</i> arrangements.				
E.145	32pp typescript entitled 'Talk to be Given to the Southern Electricity Board'.				

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E.146, E.147	Reinforced Plastics Group of the British Plastics Federation Biennial Group Discussion, Folkestone, Kent, 14-16 November 1967.
	Rotherham was a guest speaker.
E.146	Programme and correspondence <i>re</i> arrangements.
E.147	8pp typescript entitled 'Use of Glass Reinforced Plastics in CEGB (Written by N. H. Holland for use by Dr Rotherham at an Institute of Plastics Function)'.
E.148-E.150	Institution of Mechanical Engineers Discussion Meeting, London, 1 February 1968.
	Rotherham was an opening speaker.
E.148	Correspondence <i>re</i> arrangements.
E.149	14pp typescript notes entitled 'Metallurgy is the Most Important Discipline in Tribology'.
E.150	Letter of thanks and correspondence arising.
E.151, E.152	Institution of Mechanical Engineers Discussion Meeting, London, 7 March 1968.
	Rotherham gave an opening speech entitled 'Research in the Electricity Supply Industry'.
E.151	Correspondence and papers re arrangements.

4pp typescript speech.

E.152

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E.153-E.155	Research and Development Society Symposium: The Relevance of Industrial Research and Development Today, London, 26 September 1968.
	Rotherham presented a paper entitled 'Research in the Engineering Industries' for discussion.
E.153	Correspondence and papers re arrangements.
E.154	10pp typescript draft paper.
E.155	Correspondence arising.
E.156, E.157	Electricity Council Summer School, University of Southampton, 9-15 July 1969.
	Rotherham gave a lecture on development and research.
E.156	Programme and correspondence re arrangements.
E.157	Letter of thanks.

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SECTION F	SOCIETIES	AND ORGANISATIONS	F.1-F.77	F.1-F.4	ADVISORY COUNCIL FOR APPLIED RESEARCH AND 1976-1978 DEVELOPMENT (ACARD)
	F.1-F.4	ADVISORY COUNCIL FOR APPLIED RESEAR DEVLOPMENT (ACARD)	CH AND		The Advisory Council for Applied Research and Development was established to ensure that the government was kept informed of British research and development trends with particular reference to the economy.
	F.5	THE ATHENAEUM			Rotherham was invited to serve on the Council for a three-year term from its inception in September 1976 under the chairmanship of Lord Peart.
	F.6-F.48	CENTRAL ADVISORY COUNCIL FOR SCIENC TECHNOLOGY	E AND	F.1	Invitation to become a member of the Council and letter of acceptance.
	F.49-F.56	CENTRAL ELECTRICITY GENERATING BOAR	RD	F.2-F.4	Papers and minutes of meetings, October 1977-February 1978.
	F.57	ROYAL SOCIETY OF ARTS			Includes notes on the future work of the Council by Rotherham and letter on the same topic by Sir Peter Matthews.
	F.58-F.60	UNIVERSITY COLLEGE, LONDON			Three folders.
	F.61-F.66	UNIVERSITY GRANTS COMMITTEE			
	F.67-F.74	WILTON PARK		F.5	THE ATHENAEUM 1958-1962
	F.75-F.77	WOLFSON FOUNDATION		F.5	Correspondence and papers re election and membership.
				F.6-F.48	CENTRAL ADVISORY COUNCIL FOR SCIENCE 1968-1969 AND TECHNOLOGY
					The Central Advisory Council for Science and Technology was established to advise the government on the most effective national strategy for the use and development of scientific and technological resources. Rotherham served on the Council from 1968 to 1970.
				F.6-F.48	Minutes and papers of meetings, January 1968-June 1969.
				F.6	January 1968.

F.7-F.11	February 1968.	F.40	January 1969.
	Five folders.		
		F.41	February 1969.
F.12-F.14	March 1968.		
	Three folders.	F.42	March 1969.
F.15-F.17	May 1968.	F.43-F.45	April 1969.
	Three folders.		Three folders.
F.18-F.26	June 1968.	F.46, F.47	May 1969.
	Nine folders.		Two folders.
F.27, F.28	July 1968.	F.48	June 1969.
	Two folders.		
F 00	A 4000	F.49-F.56	CENTRAL ELECTRICITY GENERATING BOARD 1958-1963
F.29	August 1968.	F.49-F.56	CENTRAL ELECTRICITY GENERATING BOARD 1958-1963
F.29 F.30, F.31	August 1968. September 1968.	F.49-F.56	CENTRAL ELECTRICITY GENERATING BOARD 1958-1963 Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969.
		F.49-F.56	Rotherham served as Member for Research, Central Electricity Generating
	September 1968.	F.49-F.56	Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969.
	September 1968.	F.49-F.56 F.49	Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969.
F.30, F.31	September 1968. Two folders.		Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969. See also A.16, B.21, B.22.
F.30, F.31 F.32-F.35	September 1968. Two folders. October 1968. Four folders.		Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969. See also A.16, B.21, B.22.
F.30, F.31	September 1968. Two folders. October 1968. Four folders. November 1968	F.49	Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969. See also A.16, B.21, B.22. Letters welcoming Rotherham to his new post, 1958. 'CEGB Correspondence.' Contents of folders so inscribed divided into seven for ease of reference. Principally papers and correspondence re Central Electricity Generating
F.30, F.31 F.32-F.35	September 1968. Two folders. October 1968. Four folders.	F.49	Rotherham served as Member for Research, Central Electricity Generating Board, from 1958 to 1969. See also A.16, B.21, B.22. Letters welcoming Rotherham to his new post, 1958. 'CEGB Correspondence.' Contents of folders so inscribed divided into seven for ease of reference.
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F.51	45pp Central Electricity Authority Eastern Division Technical (Electrical) Department Report.
F.52-F.55	Correspondence and papers <i>re</i> current position of CEGB research and development. Four folders.
F.56	Album produced by CEGB containing black and white photographs taken during the official opening of the Berkeley, Gloucestershire and Bradwell, Essex, Nuclear Power Stations, 5 April 1963.
F.57	ROYAL SOCIETY OF ARTS 1969
	Rotherham was elected a Fellow of the Royal Society of Arts in 1969.
F.57	Correspondence and papers re Rotherham's nominations and election.
F.58-F.60	UNIVERSITY COLLEGE, LONDON 1960-1969
	Rotherham was elected a Fellow of University College, London in 1959. He served on the College Fellows Committee June 1969 to September 1970.
F.58	Correspondence and papers <i>re</i> the nomination of candidates for Fellowship of the College, Rotherham's appointment to the Nuclear Safety Advisory Committee and the College Association of Friends, 1960-1962.
F.59	Agendas and minutes of meetings of the University College, London Association of Friends, 1962-1966.
F.60	Letter of invitation to join the Fellows Committee and Rotherham's acceptance, 1969.

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F.61-F.66	UNIVERSITY GRANTS COMMITTEE	1960-1966
	Rotherham served on the University Grants Committee Techn Committee for two five-year terms from 1 January 1961 at the Sir Keith Murray, Chairman of UGC.	
F.61-F.66	Correspondence and papers <i>re</i> the organisation, meetings and the Technology Sub-Committee, 1960-1966.	activities of
F.61	1960.	
F.62	1961.	
F.63	1962.	
F.64	1963.	
F.65	1965.	
F.66	1966.	

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CORRESPONDENCE

SECTION G

G.15

1976.

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G.1-G.23

F.67-F.74	WILTON PARK	1970-1977
	Wilton Park was founded in 1946 as a British contribution to the of an informed international public opinion. Aiming to promote operation in Europe it offered those influencing policies in countries an opportunity to exchange views on political, eco social topics of common interest. Funded mainly by the British G-Wilton Park organised at least ten conferences each year.	greater co- their own nomic and
	Rotherham served on the Wilton Park (British) Academic Council	
F.67-F.70	Correspondence and papers <i>re</i> the organisation of Wilton Park, Principally agendas and minutes of meetings of the Academic Co. Four folders.	
F.71	Publicity papers re Wilton Park conferences, 1976.	
F.72	Wilton Park, 3rd edition, 1970 (Central Office of Information).	
F.73	Purpose, Aims and Methods of Wilton Park, H. Koeppler, 1971.	
F.74	Wilton Park Journal, 52, Summer 1976.	
F.75-F.77	WOLFSON FOUNDATION	1982
F.75-F.77	Correspondence and papers <i>re</i> the assessment of scientechnological applications for Wolfson Foundation research agrants, 1982.	entific and and project
	See also C.36.	
	Three folders.	

	niscellaneous correspondence on various aspects of Rotherham's work which
may once have formed	part of a larger filing system.
G.1-G.9	'Personal Correspondence.' Contents of folder so inscribed divided into nine for ease of reference, 1952-1958.
	Correspondence <i>re</i> business and scientific meetings, invitations and letters of thanks. Includes letters of congratulation on Rotherham's appointment to the Central Electricity Generating Board, 1958.
G.1	1952-1954.
G.2-G.5	1957.
	Four folders.
G.6-G.9	1958.
	Four folders.
G.10-G.14	'Correspondence - W. E. Ballard.' Contents of folders so inscribed divided into five for ease of reference, 1956.
	Correspondence with and re W. E. Ballard, Director of Metallisation Ltd, mainly concerning Institution of Metallurgists business and relations between commercial companies and nuclear research development.
	Five folders.
G.15-G.23	'Miscellaneous Correspondence.' Contents of folder so inscribed divided into nine for ease of reference, 1976-1990.

Includes correspondence re the Directorship of Chemring Ltd.

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G.16 1980-1982.

Includes letters $\it re$ Rotherham's work at the University of Bath and the establishment of a Ministry of Defence Study Group.

G.17 1988.

Letter from one of Rotherham's former colleagues at the Central Electricity

Generating Board.

G.18-G.23 1990.

Letter *re* Royal Society biographical memoir of Lord Hinton of Bankside, typescript draft entitled 'The Windscale Accident 1957' by L. Arnold with covering note and letter *re* magnox fuel and its potential with reference to 'burn-up' with enclosures sent to Rotherham for information.

Six folders.

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E.81

SECTION H APPENDIX H.1-H.17

This section contains a small amount of biographical material received in May 2001 after the main catalogue of the correspondence and papers of Leonard Rotherham was complete. The material covers the period 1928 to 1997. It includes some documents relating to Nora Mary Thompson whom Rotherham married in 1937.

See also Section A.

H.1	Examination certificate, Herbert Strutt School, Belper, Derbyshire, July 1928.
H.2	Matriculation certificate, Herbert Strutt School, Belper, Derbyshire, July 1928.
H.3	Examination certificate (Nora Mary Thompson), Herbert Strutt School, Belper, Derbyshire, July 1930.
H.4	Matriculation certificate (Nora Mary Thompson), Herbert Strutt School, Belper, Derbyshire, July 1930.
H.5	Examination certificate, University College, London, 1932.
H.6	BSc certificate, University College, London, 20 July 1934.
H.7	Diploma awarded to Nora Mary Thompson, College of Physical Education, Chelsea Polytechnic, London, July 1934.
H.8	MSc certificate, University College, London, 20 November 1935.
H.9	Certificate of election to the Institute of Physics, 12 February 1941.

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H.10	Certificate of election as an Associate of the Institution of Metallurgists, 23 May 1946.
H.11	Certificate of election to the Fellowship of the Institution of Metallurgists, 16 March 1942.
H.12	Honorary LLD certificate, University of Bristol, July 1972.
H.13	Honorary DSc certificate, University of Bath, 10 December 1975.
H.14	Letter of thanks for Rotherham's service on the Fellowships Selection Subcommittee of the International Relations Committee of the Royal Society, 11 October 1977.
H.15	Certificate of election to the Fellowship of Imperial College of Science and Technology, London, 5 December 1986.
H.16	Certificate of membership, American Society of Mechanical Engineers, 1990. See also A.19.
H.17	Passport, issued 1997.