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Catalogue of the papers and correspondence of

ULICK RICHARDSON EVANS, CBE, FRS

(1889 - 1980)

Metallurgist

Deposited in Cambridge University Library

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1983

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## GENERAL INTRODUCTION

### PROVENANCE

The majority of the material was received from Dr. J.E.O. Mayne, a professional colleague, close personal friend and neighbour of Evans. Dr. Mayne also collaborated with Sir Alan Cottrell in the Royal Society Memoir (Biographical Memoirs of Fellows of the Royal Society, 27, 1981).

Volume III of Evans's 'Non-scientific Efforts of a Scientist' was made available by Mrs. Ann Wilson (niece) and is included as item C.6.

### DESCRIPTION OF THE COLLECTION

Evans was internationally known as the 'Father of the modern science of corrosion and protection of metals'; he went from Marlborough to King's College, Cambridge, in 1907, remaining there until 1911 and returning after army service in the First World War. He spent the rest of his life in Cambridge, researching and writing prolifically on corrosion and oxidation of metals, and died there, unmarried, at the age of ninety-one.

Evans's intellectual vigour and spirit of enquiry remained undiminished to the end of his very long life, as can be seen from several surviving letters written after he was ninety. He was fully conscious of his continuing achievements in extreme old age, and nurtured them by a regime of outdoor exercise, careful diet and self-imposed limits on social activities. As the years went by, however, he realised the need to make suitable dispositions of his possessions; scientific books and journals were offered to appropriate institutions, and in 1964 Evans made a selection of personal writings, photographs and other material which, in bound or typescript form, he circulated among his family and friends: these appear at A.3, A.6 and C.6 in the present collection. It seems that he then destroyed his remaining papers; consequently, no personal records survive of his most important research findings, or of his consultative work for government and industry in the earlier part of his life, and the existing documents are essentially confined to those which accumulated after this major clear-out in the 1960s.



An exception to this is the material relating to Evans's tripartite consultancy with S. Rideal and his son E.K. (later Sir Eric) Rideal in 1912 (see B.2 - B.5). The remaining material in Section B has its interest in documenting Evans's lifelong concern - no doubt continuing that of his father Richardson Evans - for the conservation of the natural environment, whether by the use of windmills to replace or supplement fossil fuels, or by his somewhat less than practical scheme to foster economical and nutritious home baking which greatly occupied his time and tea-parties in his last years (see B.17 - B.31 and introductory note).

Several of the letters in Section D refer to the considerable achievement of his publication in 1976 of the 'Second Supplementary Volume' of his major book 'Corrosion and oxidation of metals'. He was then eighty-seven, but continued to ask his correspondents for comments and additional references which he was assembling for use by a successor who would after his death compile a third supplement.

#### OTHER MATERIAL

A small amount of material, including apparatus and specimens, is held in the Department of Metallurgy, Cambridge.

Biographical and personal

- A.7 Folder of 'Extracts from letters received from Recipients of Volume I'.
- A.8, A.9 Two albums of photographs of climbing expeditions, almost all with identifications by Evans of places, dates, companions, weather, etc.
- A.8 'Views in Tatra (Czecho-Slovakia) and Austria'.
- A.9 'Views in Dolomites and Lake District also Austrian Alps'.
- A.10 Miscellaneous items of biographical interest.  
Letter to Evans from his sister, c.1912.  
Letter offering Evans post as analyst in 'a Steel Works', 1912.  
Press-cutting re dinner to celebrate election to Fellowship of Royal Society, 1949.  
Photocopy notice of award of 1971 Cavallaro Medal to Evans, 1971.
- A.11 Miscellaneous items of biographical interest.  
Program of the U.R. Evans International Conference on 'Localized Corrosion', held at Williamsburg, 6-10 December 1971. Includes miscellaneous biographical and bibliographical information.  
Signed message of greeting from colleagues at 'Eurocor '77'.  
Signatures of guests at Evans's 90th birthday party, 31 March 1979.

Biographical and personal

A.12-A.15 CAMBRIDGE UNIVERSITY

A.12-A.14 KING'S COLLEGE

Miscellaneous correspondence on College affairs.

Several of the exchanges are requests for information about Kingsmen for the college obituary notices, which Evans's long connection with the college enabled him uniquely to provide.

A.12 1966-68.

A.13 1969-72.

Includes guest list for a lunch party given by the college for Evans's 80th birthday.

A.14 1973-78.

A.15 DEPARTMENT OF METALLURGY

Miscellaneous correspondence, mainly invitations to various social functions at or arranged by the Department, 1969-71.

Biographical and personal

A.16-A.19

FAMILY AND PERSONAL CORRESPONDENCE

- A.16      Family correspondence, with nephews, nieces and their families, 1966-76.  
Not indexed.
- A.17      Shorter correspondence with colleagues and departments re the loan or gift of books or journals, 1969-79.
- A.18      Shorter personal correspondence.  
Not indexed.
- A.19      Draft letter re Evans's proposed will, 1959.  
Brief exchange with Evans's doctor, 1974, 1978.



Biographical and personal

A.20-A.23

AMENITY SOCIETIES AND THE ENVIRONMENT

Correspondence with societies and with individuals.

In alphabetical order.

A.20

Cambridge Civic Society 1976

Commons, Open Spaces and Footpaths Preservation Society 1974

Department of the Environment re traffic in the Lake District. 1974

See also correspondence with G.F. Peaker in A.22.

Dorking and Leith Hill Preservation Society 1976

A.21

John Evelyn Society for improving the amenities of Wimbledon.

The Society was founded by Richardson Evans (father of U.R. Evans). Folder includes correspondence with the Secretary of the Society 1977-78 with recollections of Wimbledon personalities and a commemorative article 'Someone to be thankful for' about the work of Richardson Evans by Philip Rathbone (grandson of Richardson and nephew of Ulick Evans) 1977

Also included here is a report, 1938-39, annotated by Evans, on the activities of 'The SCAPA Society' founded in 1893 by Richardson Evans as the 'Society for Checking the Abuses of Public Advertising'.

A.22

The National Trust 1939

Peaker, G. F. 1973, 1975

Includes part of Peaker's evidence at enquiry into proposed relief road at Ambleside.  
See also A.20.

Reading, 1971

Evans's carbon only, re Tree Lovers' Society.

### Biographical and personal

A.23 Schomberg, B. 1971-74

Personal correspondence, re pollution in the Cam, and Schomberg's concern about pollution in the Rhine. Includes various recollections of people and places.

Turner, T. H. 1974-76

Similar material on pollution and corrosion, including references to Schomberg.

Wilson, A. 1971

SECTION B

RESEARCH PROJECTS, B .1 - B.31

B.1-B.6

ELECTROCHEMISTRY AND CORROSION

B.1

Hardbacked notebook.

Main sequence is an undated series of experiments intended to measure the velocity of chemical action at various temperatures.

Pasted into rear of book is a smaller notebook recording experiments on catalytic reactions, with a ms. note inside front cover 'Experiments performed - account written about the beginning of 1908?'.  
Also included are loose pages of experiments with chemical weed-killers, dated May 1914.

B.2-B.4

Correspondence and agreements re the consultancy with S. Rideal and E.K. (later Sir Eric) Rideal, which Evans embarked upon in 1912 (see Memoir, p.236).

The letters were received tightly folded in an envelope marked 'E.K.R. letters up to Sep. 1912'. Most of them are dated and some are paginated or annotated by Evans. They are sent from Aachen and Bonn, where Rideal was working under A. Fischer and Professor Anschütz respectively; his doctorate, obtained at Bonn in June 1912, was awarded the Gold Medal of the Bonn Society of Engineers.

B.2

Letters, April (one only) - July 1912.

List of chemicals and apparatus.

Includes original envelope.

B.3

Correspondence from Evans to E.K. Rideal, May-June. Most of these are cards and probably résumés of handwritten letters without carbons.

Included here is a letter from S. Rideal, May 1912, with offer of employment and conditions of work.

B.4

Various drafts, and signed final 'Proposed working agreement between S. Rideal, E.K. Rideal and U.R. Evans, 22 October 1912.'

Later agreement between S. Rideal and U.R. Evans, signed, dated 1 July 1913.

Research projects

- B.5                      Soft-backed notebook inscribed 'Literature by E.K. Rideal and U.R. Evans'.  
Few pages used, mostly in Evans's hand.
- B.6                      'Mineral Coatings. A novel principle in the control of corrosion wastage'.  
Typescript draft with considerable ms. emendation and correction. 38 pp. + 3 pp. references, latest date 1974.  
  
Included here is a ms. draft, undated, of a letter to be sent to a few colleagues, accompanying the paper and inviting comments. In it, Evans says 'Publication is not contemplated. The research has, on the whole, been a failure, although the easy method of preparing specimens might be welcomed by some'.



Research projects

B.7- B.16

ENERGY CONSERVATION

- B.7 'Energy from the wind without the use of sails'.  
Miscellaneous typescript and ms. drafts for a paper  
by Evans, with diagrams, November 1977 and January 1978.

B.8-B.16 Correspondence on energy conservation, 1973-76  
In alphabetical order.

- B.8, B.9 Bacon, F. T. 1973-76  
Correspondence on a wide range of problems  
and suggestions related to energy, showing Evans's  
continuing practical concern for research.
- B.8 1973
- B.9 1975, 1976 (one letter only)
- B.10 Baily, M. 1974
- Bell, D. A. 1976  
(Evans's carbons and press-cuttings only).
- B.11 Cole, M. 1974-75  
On windmills.
- B.12 Cottrell, A. H. 1974-75  
On wind-power; also enclosed is a letter from  
Evans to R. Eden on the subject.
- B.13 Hundy, B. B 1973-74  
On the 'cycle-car'.
- B.14 Maddox, J. R. 1974
- Marples, D. 1976  
Evans's carbon only, describing energy con-  
servation projects.
- B.15 Sibthorp, M. M. 1976
- Stodhart, A. H. 1973
- B.16 Wells, S. 1974  
Evans's carbon only.
- Wilson, A. 1974, 1975

Research projects

B.17-B.31

NUTRITION AND FOOD SCIENCE

The material relates to Evans's belief that, by encouraging home baking on scientific principles, it would be possible both to improve nutrition and also to conserve energy. The idea - which became a dominant one in his last years - derived from his own experiments in baking bread and cakes on a small electric cooker in his kitchen and involved the use of reflecting panels to direct radiation on to the food being cooked. The clearest statement of his aims is perhaps the introduction to a paper on 'Some novel features of the Cambridge baking procedure', dated 31 January 1978, and now at B.20 which reads:

'During recent years a method for the home baking of bread and cake has been developed which aims at the reduction of energy consumption (and hence lowering of the electricity bill) as well as a lessening of claims of the cook's time. The present report seeks to show how this has been found possible by the application of scientific principles, mostly well established fifty years ago but not always applied by those who design ovens or write cookery books'.

Evans's idea was in fact less practical than he imagined, deriving as it did from his use of a very small, obsolete model of cooker, the baking of tiny amounts or 'loaflets' as he called them, and, at a later stage in the project, the manipulation of steel shears to cut special liners or reflectors. It was in any case confined to electric cookers. Nevertheless, he contemplated patenting a device, and publishing a booklet on the subject perhaps with a co-author. Only five chapters of the proposed book survive (B.17) though at least eight appear to have been written; there are also various specifications for the design and patent (B.21) and some shorter writings (B.18-B.20)

The promotion of the idea gave rise to considerable correspondence with colleagues in science and industry on nutrition and food chemistry, with manufacturers of domestic cooking appliances, with advisers on patenting and publication, and with members of his family and acquaintances who constituted his 'panel of tasters'. This correspondence is presented as a chronological sequence at B.22-B.31.

Research projects

B.17-B.21

Drafts and papers by Evans

- B.17      Drafts for Chapters 1-5 of proposed book.  
Photocopy of typescript with ms. corrections.
- Chapter 1      Possible advantages of home baking.  
Chapter 2      The energy requirements of baking.  
Chapter 3      Claims on the cook's time.  
Chapter 4      Fittings designed to obtain economy.  
Chapter 5      Examples of baking procedures.
- B.18      'Bread-making in a small electric oven'.  
9 pp. typescript and ms. draft dated 3 June 1975.  
This paper explains how Evans, at the age of 86, became  
interested in home baking and its improvement.
- B.19      'Economy of power and time in home cooking of bread  
and cake'.  
10 pp. typescript and ms. draft dated 5 April 1977.
- B.20      'Novel features of the Cambridge baking procedure'.  
11 pp. typescript and ms. draft and 1 p. diagrams,  
31 January 1978.
- B.21      'An improved heating system for domestic Electrical Ovens'.  
Various drafts, specifications and drawings for an invention  
to be patented under this title, February-May 1978. Some  
sent to, or revised by, S. C. Britton and J.E.O. Mayne  
and referred to in the correspondence below.

B.22-B.31

Correspondence and papers

- B.22      1975
- B.23      January-June 1976
- B.24      July-September 1976
- B.25      October-December 1976
- Includes letters to N.R.D.C. on possible patenting  
of Evans's improved oven, and also on his metallic  
coating research.

Research projects

- B.26            January-April 1977
- B.27            May-September 1977  
                 Includes correspondence re publication projects.
- B.28            October-December 1977
- B.29            January-March 1978  
                 Includes correspondence re provisional patent,  
                 and various drafts submitted to colleagues for  
                 comment.
- B.30            April-June 1978  
                 Similar material.
- B.31            July 1978-February 1979  
                 Similar material re patenting.



SECTION C

NON-SCIENTIFIC WRITINGS C.1 - C.6

- C.1, C.2      'Science, Prosperity and Human Happiness'.
- C.1      Typescript and ms. draft for a work so titled, with Introduction, Chapters I - VII and Summary and Conclusions. In original folder.
- With publisher's rejection letter (Edward Arnold & Company) returning the ms., 1931.
- C.2      Comments and correspondence on the book from G.S. Adair and G.F. Peaker, 1931.
- C.3            'A Scheme for Exchange Holidays'.
- 6 pp. typescript and ms. draft for article.
- With letter of rejection from The Hiker and Camper, 1932.
- C.4            'Some observations on the physical chemistry of rheumatism. By a patient'.
- 73 pp. typescript and ms. draft, with a ms. note on the title page 'Written 1932'.
- See also A.4.
- C.5            'Cloud-burst. A short story written by U.R. Evans in 1935 at Hofgastein, Austria, near the Water-fall'.
- 9 pp. duplicated typescript.
- C.6            'Snap Up Your Chances. The Start of a Detective Career (being Vol.III of "Non-scientific Efforts of a Scientist")'.
- 233 pp. typescript, bound in same format as A.6.

SECTION D

CORRESPONDENCE D.1 - D.31

The correspondence, which dates mainly from Evans's later years, includes both personal and scientific material. It is presented as an alphabetical sequence, with terminal dates and a note of any content of particular biographical or professional interest.

D.1	Adair, G. S.	1971
	Agar, J.	1967 (Evans's carbon only), 1970
	Ansell, E.	1969
D.2	Bacon, F. T.	1972-76
	Mainly on fuel cells.	
	Bianchi, G.	1977
	Bragg, W. L.	1968
D.3	Brasunas, A. de S.	1973-77
D.4	Brennert, S.	1977
	Recalling an incident in 1939 when Evans assisted Brennert's research.	
D.5	Cairns, W. J.	1973
D.6	Cambridge Philosophical Society	1976
	Evans's carbon only <u>re</u> library provision in Cambridge.	
	Campbell, H. S.	1977
	<u>re</u> Chaudron, G.	1976-77
	Correspondence with Chaudron's family and colleagues after his death.	
D.7	Childs, E. C.	1967-68
	Mainly Evans's carbons, on Cambridge University matters.	
	Cottrell, A. H.	1971

Correspondence

D.8	Dixon, K.	1967-78
	Dougherty, J.	1975
D.9	Eijnsbergen, J. F. H. v.	1973, 1977, 1979
	On various corrosion problems, and including research findings.	
D.10	Feather, N.	1977
	Evans's recollections of Rutherford.	
	Fink, F. W.	1979
	Francesco, E. de	1976
	Research on atmospheric corrosion.	
	Heitz, E.	1977
D.11	Evans's carbon only, with various personal reflexions.	
	Hoar, T. P.	1967-75
	Mainly scientific correspondence on research and publications, but includes a few letters <u>re</u> Hoar's retirement in 1975.	
D.12	Hoey, C. E.	1976
	Evans's carbon only, <u>re</u> his current research programme on metallic zinc paints.	
D.13	Honegger, E.	1975-76
	Hughes,	1967
	Evans's carbon only.	
	Hutton, R. S.	1968-70
	Hyde, A.	1966
	On research at Cambridge.	

D.14	Kaesche,	1979
	Evans's draft only. He was then 90, but still reading and planning research.	
	Knights, L. C.	1967
	Evans's carbon only.	
	Kruger, J.	1974-75, 1978
	Includes recollections of Leif Tronstad.	
D.15	La Que, F.	1979
	Mainly comments arising from a publication by La Que. Includes recollections of early work on corrosion.	
D.16	Lawther, P. J.	1959
	Evans's carbon only, on atmospheric pollution.	
	Lessing, R.	1961
	Lobry de Bruyn, C. A.	1973-78
D.17	McCafferty,	1974
	Evans's carbon only.	
	Maitland,	1974
	Evans's carbon only, suggesting experiments for paint research.	
	Mann, F. G.	1976
	Recollections of Rutherford, Kapitza, etc.	
	Mansfeld, F.	1976
	Evans's carbon only, on problems of electro-chemical research.	



Correspondence

- D.18-D.20                      Mayne, J. E. O.                      1966-78
- Mayne was a colleague of Evans, and a close neighbour in his last years. Partly because of this proximity, there are several gaps in the correspondence.
- The material includes comments on research projects, and on papers submitted for publication in the British Corrosion Journal.
- D.18                      1966-72
- Includes correspondence, 1968-69, on the establishment by Mayne of a Corrosion Research Fund at Cambridge to support research and teaching in metallic corrosion and related fields (see Cottrell and Mayne, Memoir, p.239).
- D.19                      1973-76
- Includes correspondence, 1974, re the disposition of Evans's library of scientific books and journals; correspondence 1976 re copies of his early reprints; correspondence February 1976 re paper by Mayne and S. Turgoose on 'Flade Potential of Iron' which was the first publication arising from work financed by the Corrosion Research Fund.
- D.20                      1977-78
- Includes letter, 13 March 1978, in which Evans explains his decision to do no further corrosion experiments at his flat and to concentrate his efforts on fuel economy and home baking.
- D.21                      Needham, J.                      1969
- Evans's carbon only.
- Oatley, W.                      1973
- Evans's carbon only, including recollections of early research.
- Okada, H.                      1974
- re Japan Society of Corrosion Engineering.
- Okamoto,                      1973
- Evans's carbon only.

Correspondence

D.22	Page, C. L.	1970-71
	Phipps, B.	1976
	On research papers by F. Mansfeld.	
D.23, D.24	Pourbaix, M. J. N.	1973-79
	Pourbaix was at the relevant period Managing Director of Cebelcor (Centre belge d'Étude de la Corrosion).	
	The correspondence deals with research, publications, conferences, etc., as well as biographical material.	
D.23		1973-75
D.24		1976-79
D.25	Rayner, N.	1970
	On 'bronze disease'.	
	Rideal, E. K.	1968, 1970
	Correspondence 1968 is <u>re</u> colloid science at Cambridge; 1970 correspondence is Evans's letter of congratulation for Rideal's 80th birthday dinner.	
	Rosenfeld, I. L.	1977
	Evans's carbon only.	
D.26	Sato, N.	1973, 1974
	Schikorr, G.	1971-74
	Shibata, T.	1979
	Evans's carbon only.	
	Shorne,	1969, 1975
	Evans's carbons only.	
	Shorter, J.	1977
	Recollections of H.O. Jones.	
	Sircar, S. C.	1974

Correspondence

D.27	Staehle, R. W.	1974-78
	On research and publications.	
D.28	Stone,	1967
	Evans's carbon only, on paint research.	
	Sutherland, G. B. B. M.	1960
	Talati, J. D.	1977
	Evans's carbon only.	
	Taylor, C. A. J.	1974
	Evans's carbon only, <u>re</u> research carried out jointly with Taylor.	
D.29	Taylor, G. I.	1972
	Evans's carbon only.	
	Teresa, R. N.	1979
	Invitation to initiate a lecture course at newly-formed Corrosion Research Group, University of Mexico. Evans was then ninety.	
	Theiler, F.	1973
D.30	Uhlig, H. H.	1978
D.31	Winterbottom, A. B.	1973, 1975
	Wranglén, G.	1974
	Young, E.	1976
	On the dangers of nuclear war.	

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