

Catalogue of the papers and correspondence of

VICTOR GOLD FRS

(1922 - 1985)

Compiled by Timothy E Powell and Peter Harper

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1990

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V Gold
NCUACS 19/4/90

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Dr Jean Gold (Mrs Gold) in November 1988.

OUTLINE OF THE CAREER OF V GOLD

Victor Gold was born in Vienna on 29 June 1922. He was educated at the Vienna Realgymnasium until the age of 15 when, following the Anschluss, he was sent to the UK by his family. He spent a year at the Loughborough Engineering College before entering King's College London as a Special Chemistry Student in 1939. Gold's studies were interrupted in the summer of 1940 by internment on the Isle of Man but he was released in December and resumed work, now as a student of University College London (which was then based at Aberystwyth).

Gold gained First Class Honours in his BSc in 1942 and was awarded the Tuffnell Scholarship to study for his PhD. His postgraduate research on aromatic nitration, undertaken for the Ministry of Supply, won Gold the University College Ramsay Memorial Medal in 1944.

Later that same year Gold returned to King's College London as a Demonstrator. He was appointed Assistant Lecturer in 1946, Lecturer in 1947, Reader in Physical Organic Chemistry in 1956 and Professor of Chemistry in 1964. Gold was made Head of Department in 1971, and served as Dean of the Faculty of Natural Sciences 1978-80. Under Gold's leadership the King's College Department of Chemistry grew to be the largest in

the University of London. In recognition of his services to the College Gold was made a Fellow of King's College in 1975. He was already a Fellow of University College (1973). In 1954 Gold married Jean Sandiford, a chemistry graduate of King's College. They had two children.

In recognition of his contribution to physical organic chemistry Gold was elected to the Fellowship of the Royal Society in 1972 and in 1984/5 was awarded the Royal Society of Chemistry's Ingold Medal and Lectureship. The Times obituarist summed up his achievements thus:

'Gold's scientific work was marked by a happy combination of a wide knowledge of organic reactions with experiments of the precision and ingenuity expected of the physical chemist. One of his greatest achievements was to rekindle interest in the use of solvent isotope effects to probe the details of reaction mechanisms.

In a series of influential papers and reviews he established the correct methodology and showed how information about the structures of transition states could be obtained. In competition with Professor A J Kresge, he carried out elegant experiments using nuclear magnetic resonance, which established definitively the structure of the solvated proton H_3O^+ . He later extended this work to the hydroxide ion'.

Gold's own, more detailed accounts of his work can be found at G.11. He also founded and for nine years was the sole Editor of Advances in Physical Organic Chemistry, a journal influential in shaping the development of the subject.

In addition to extensive service on King's College administrative and academic bodies Gold made an important contribution to a number of societies and organisations. He served on the Councils of the Faraday

Society 1963-66, the Chemical Society 1971-74 and the Royal Institution from 1983 and on the Science Research Council Chemistry Committee 1979-82. He also chaired the British Committee for Chemical Education 1976-78 and the British National Committee for Chemistry 1982-84. Gold's service with the International Union of Pure and Applied Chemistry (IUPAC) from 1973 was particularly significant. As a member of its Commission on Physical Organic Chemistry Gold co-ordinated the work on a glossary of terms used in the subject, and contributed to other nomenclature projects. In September 1985, very shortly before his death, Gold was elected to the IUPAC Bureau.

For a full account of the life and career of Gold see W J Albery 'Victor Gold 29 June 1922 - 29 September 1985', Biographical Memoirs of Fellows of the Royal Society 33 1987.

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the List of Contents. There is extensive documentation of Gold's research and of his work on the nomenclature of physical organic chemistry.

Section A, King's College London, is chiefly Departmental, Faculty and College administrative papers and related correspondence. It includes material relating to Gold's service on committees overseeing the construction of the new College building on the Strand, his Deanship of the Faculty of Natural Sciences 1978-80 and his chairmanship of the Chemistry Sub-Board. Of particular interest is correspondence relating to a possible benefaction to the College by C S Gulbenkian.

Section B, Research, is the largest in the collection. It is a sequence of correspondence, notes and drafts arranged alphabetically by person covering Gold's research work with postgraduate students, postdoctoral research assistants and fellows, and visiting colleagues 1949-85 (lists of whom may be found at G.5). Particularly well-represented is Gold's work on kinetic solvent isotope effects and radiation-induced reactions. This material has been linked wherever possible to Gold's numbered list of publications which is reproduced as pp.109-127 of this catalogue.

Section C, International Union of Pure and Applied Chemistry documents Gold's service for this organisation from 1973. It is principally material accumulated in the course of co-ordinating the compilation of the IUPAC Glossary of Terms used in Physical Organic Chemistry. There is extensive correspondence from colleagues worldwide offering definitions of terms or comments on suggested definitions and several of Gold's drafts. Also in this section is material relating to Gold's work on a general compendium of terminology for IUPAC, drafts by others sent to Gold as a member of the Interdivisional Committee on Nomenclature and Symbols and material relating to Gold's co-ordination of a project on definitions of stereochemistry terminology.

Section D, Royal Society, is chiefly correspondence and papers relating to committee meetings. Gold served on a number of Royal Society committees, the best documented of which are the British National Committee for Chemistry and the Chemical Education Committee. Most of the material for both relates directly or indirectly to Gold's interest in the nomenclature of physical organic chemistry.

Section E, Advances in Physical Organic Chemistry, documents the first nine years of Gold's editorship of this journal from 1963. It comprises editorial correspondence with prospective and contributing authors and with the publishers.

Section F, Correspondence, contains few extended sequences of correspondence. Much of it is with former students and research assistants, who are also represented by material in Section B.

Section G, Biographical, is very slight. It includes a complete bibliography and Gold's curriculum vitae.

LOCATION OF OTHER MATERIAL

Sets of theses of Gold's students and of Gold's reprints are at King's College London. Further sets of reprints are held by University College London, the Royal Society, University of California at Irvine, Cornell University and by the family. Copies of Gold's books have been placed with the Royal Society and the Royal Institution.

ACKNOWLEDGEMENTS

We are very grateful to Dr Jean Gold for making the manuscripts available and for her advice and encouragement.

Timothy E Powell
Peter Harper
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SECTION A

KING'S COLLEGE LONDON

A.1 - A.116

A.1 - A.56

CHEMISTRY DEPARTMENT

A. 1 - A.35

Administration

A.36 - A.50

Research

A.51 - A.56

Teaching

A.57 - A.116

FACULTY AND COLLEGE

A.57 - A.66

Faculty of Natural Sciences

A.67 - A.116

College

CHEMISTRY DEPARTMENT

Administration

A. 1 - A.16

Chemistry Sub-Board

A.17 - A.27

Committee of Heads of University
Chemistry Departments

A.28 - A.35

General correspondence and papers

Chemistry Sub-Board

This body administered the setting and marking of undergraduate Chemistry examinations. Gold was chairman for the period covered by the material.

King's College London

A.1 - A.16 Correspondence and papers 1972-77.

16 folders

A.1	1972	A.9	1974 (3)
A.2	1973 (1)	A.10	1975 (1)
A.3	1973 (2)	A.11	1975 (2)
A.4	1973 (3)	A.12	1976 (1)
A.5	1973 (4)	A.13	1976 (2)
A.6	1973 (5)	A.14	1976 (3)
A.7	1974 (1)	A.15	1977 (1)
A.8	1974 (2)	A.16	1977 (2)

Committee of Heads of University Chemistry Departments

This Committee was organised under the auspices of the Royal Institute of Chemistry (later the Chemical Society) to consider the teaching of Chemistry in UK universities. Gold was Head of the King's College Chemistry Department from 1971.

A.17 - A.27 Correspondence and papers 1970, 1974-78.

11 folders

A.17	1970	A.23	1977 (1)
A.18	1974-75	A.24	1977 (2)
A.19	1976 (1)	A.25	1977 (3)
A.20	1976 (2)	A.26	1978 (1)
A.21	1976 (3)	A.27	1978 (2)
A.22	1976 (4)		

King's College London

General correspondence and papers

- A.28 1960-83. Requests to study in the Department.
- A.29 - A.32 1970-80. Re Chemistry Department participation in
 British Council exchange schemes.
- 4 folders
- | | |
|-----------------|------------------------|
| A.29 1970 | A.31 1974-75 |
| A.30 1971-72 | A.32 1976,1978,1980 |
- A.33 1972-73.
- A.34 1973-76. Re Chemistry Department participation in the
 London International Youth Science Fortnights.
- A.35 1975-84.

Research

- | | |
|-------------|-----------|
| A.36 - A.44 | Funding |
| A.45 - A.50 | Equipment |

Funding

Arranged in an alphabetical sequence of financing bodies
approached.

- | | | |
|------|--------------------|------|
| A.36 | Boots Company Ltd. | 1971 |
|------|--------------------|------|

King's College London

A.37, A.38	British Petroleum Company Ltd.	1971-81
A.37	1971-75	
A.38	1975-81. Includes correspondence <u>re</u> possible support for energy related research 1980.	
A.39	Du Pont.	1966
A.40 - A.42	Esso Petroleum Company Ltd.	1968-74
A.40	1968-69. Chiefly <u>re</u> CAPS (Co-operative Awards in Pure Science) studentships.	
A.41	1969. Second Esso Students' Symposium October 1969.	
A.42	1971-74. Chiefly <u>re</u> CAPS studentships.	
A.43	Glaxo Research Ltd.	1971, 1982
	Monsanto Chemicals Ltd.	1971-72
	Perkin-Elmer Ltd.	1981
	Roche Products Ltd.	1971
A.44	Miscellaneous 1981, 1984.	

King's College London

Equipment

- A.45 Orders for laboratory equipment, 1960-68.
Correspondence re Varian XL-100 NMR Spectrometer 1971.
- A.46 Correspondence and papers re the Physico-Chemical Measurements Unit 1971-72, 1976-77.
- A.47 Completed questionnaires on Mass and NMR spectrometry at King's College. Nd but found with the preceding.
- A.48 - A.50 'Word processing PET System'. Contents of Gold's folder so inscribed: information brochures and booklets, 1980-82.
- A.48 Printers and phototypesetting systems.
- A.49 WORDPET '82 system.
- A.50 National Physical Laboratory computing documentation.

Teaching

- A.51 List of text books housed in the Department's Tutorial Library, 1971-72, 1974-75, 1975-76.
- A.52 Correspondence and papers re summer practical courses 1973-74.

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A.53, A.54 Correspondence and papers re chemistry courses for students
of biological sciences.

A.53 1973-74

A.54 1977-79

A.55 'Class 1975-78'. Contents of Gold's folder so inscribed:
chiefly students' marks, projects etc.

A.56 Gold's notes on 'Third year students 1978-79'.

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King's College London

FACULTY AND COLLEGE

Faculty of Natural Sciences

Gold was Dean of the Faculty 1978-80. The material is the contents of Gold's bulky files of Deanship correspondence and papers.

- A.57 1978 April-December. Includes material re proposed revision of the intercalated BSc degree of the University of London.
- A.58 1979 January-March. Includes correspondence re student numbers in biology.
- A.59 1979 April-June.
- A.60 1979 July-December.
- A.61 1980 January-February. Includes material re proposed alteration of regulations for course-unit degrees; British Association Special Lectureships.
- A.62 1980 January-March. Correspondence and papers re Academic Council's Review of Examinations.
- A.63 1980 January-March. Material re research carried out in the Faculty of Natural Sciences, compiled for the Committee of Vice-Chancellors and Principals.
- A.64 1980 March-April.

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- A.65 1980 May-September. Includes correspondence re regulations
for election of Faculty representatives to Academic Board,
May-June.
- A.66 1980 October - 1981 February. Includes information on
Faculty research activities submitted to World Energy
Directory.

King's College London

College

A. 67 - A. 73	C S Gulbenkian
A. 74 - A.100	Strand Building
A.101 - A.112	Committees
A.113 - A.116	General correspondence and papers

C S Gulbenkian

In 1950 the College discovered that C S Gulbenkian, then thought to be the richest man in the world, was the second oldest Associate of the Faculty of Engineering (receiving the distinction in 1887). The College renewed contact with Gulbenkian initially with a request that he provide an account of his years at the College for the journal The King's Engineer, later in connection with a possible bequest to the College.

The material is principally correspondence 1950-54 between College authorities, Gulbenkian, V M Seruya, an engineering graduate of King's College who acted as a go-between, and Lord Radcliffe of Werneth, a close friend of Gulbenkian. Gulbenkian died in July 1955.

- A.67 Press-cuttings, October 1950; information on Engineering Society meetings attended by Gulbenkian 1885-87.
- A.68 Correspondence December 1950 - February 1951. Chiefly re preliminary visit of Seruya to Gulbenkian, January.

King's College London

- A.69 Correspondence March - April 1951. Chiefly re visit of S J Davies, Dean of Engineering, to Gulbenkian, April. Includes Davies's report on his visit including possible benefaction to King's College.
- A.70 Correspondence January-February 1952. Re conferral of Fellowship of King's College on Gulbenkian.
- A.71 Correspondence October-December 1952. Re possible benefaction. Includes Davies's notes and report on second visit to Gulbenkian, November.
- A.72 Correspondence January-May 1953. Re possible 'Gulbenkian Prize'.
- A.73 Correspondence July 1953-January 1954.

Strand Building

In January 1964 King's College Steering Committee established a Quadrilateral Rebuilding Stage I (Strand) Building Sub-Committee. Gold was invited to serve in a personal capacity in June 1967. In October 1968 Gold was invited to join the Steering Committee and became chairman of the Stage I Building Sub-Committee. The Sub-Committee was wound up in 1972 when the new building was officially opened.

The material comprises floor- and room-plans for the Chemistry Department to be housed in the new building, lists and specifications of furnishings and equipment with related correspondence, information on Chemistry Departments at other establishments and miscellaneous correspondence, papers and ms notes. Correspondence with the architects, minutes of meetings and plans are held in King's College Archives.

King's College London

- A.74 Invitations to serve on the Stage I Building Sub-Committee 1967 and Steering Committee 1968; plan of stages of redevelopment of the Strand site.
- A.75 - A.78 'To 1964'. Contents of Gold's folder so inscribed.
- A.75 1961-63. Includes D H Hey's draft 'Plan for Chemistry' 12 April 1961.
- A.76 1964 March. Includes 'Obsolete plans'.
- A.77 1964 April-June. Includes 'Interim report to the Steering Committee concerning plans for chemistry by a Committee of the Professors and Readers of the Chemistry Department'; plans 'June 1964'.
- A.78 Nd. Miscellaneous typescript and ms notes by Gold on Chemistry Department requirements.
- A.79 'Revised schedule I for Chemistry (July 1964)'.
- A.80 Schedule II for Science and Applied Science Buildings January 1965 ; room-plans January and February 1965.
- A.81 - A.83 'Early planning papers'. Contents of Gold's folder so inscribed.
- A.81 'Schedule for floors seven and eight', February 1965;
 'Schedules for research labs on floors 5 and 7'.
- A.82 Specifications for fittings for rooms in the Department.
- A.83 Plans October 1969 and nd; Gold's ms notes on room allocation.

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- A.84 'Revision of Plans: 11th May 1965'; miscellaneous material 1965-67.
- A.85 Correspondence, plans etc., re benching in the Chemistry Department 1968.
- A.86 Correspondence and papers 1969. Includes papers re Chemistry Department Equipment Grant for the Strand building.
- A.87 Correspondence and papers re Equipment Grant February - July 1970.
- A.88 Miscellaneous material 1970. Includes Gold's draft of a 'Special Report by Stage I Building Committee to the Principal and General Purposes Committee of the Professorial Board' with comments received thereon.
- A.89 Miscellaneous correspondence and papers 1971.
- A.90 Report of Quadrilateral Rebuilding Stage I (Strand) Building Sub-Committee to General Purposes Committee, 2 May 1972. With related correspondence.
- A.91 Material re Official Opening of the New Strand Building by H M The Queen, 27 June 1972.
- A.92 Miscellaneous correspondence and papers 1972-73.
- A.93, A.94 Undated plans, lists, ms notes etc.
2 folders.

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King's College London

A.95 - A.100 Background material: information on Chemistry Departments at other universities and colleges.

6 folders.

Committees

Gold's service on a number of King's College committees is documented below. In addition Gold served on a number of other important College bodies whose records are held in King's College Archives. These are the Academic Board, the Committee of Deans, Delegacy, the General Purposes Committee and the Professorial Board.

A.101 Advisory Committee on Computing 1966

A.102, A.103 Advisory Committee on Staff 1971-80

Correspondence re Chemistry Department staffing levels.

2 folders.

A.104-A.110 Computing Committee 1978-80

Correspondence and papers re Committee meetings.

7 folders.

A.104	1978	A.108	1979 Oct (2)
A.105	1979 Jan, Apr	A.109	1980 Jan-Sept
A.106	1979 June-Aug	A.110	1980 Oct
A.107	1979 Oct (1)		

A.111, A.112 Science Advisory Committee 1970

Correspondence and papers re Departmental Equipment Grants.

2 folders.

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King's College London

General correspondence and papers

- A.113 1965, 1968. Gold's letter of 29 January 1968 is re 'the possibility of a move or a partial move of the College to the site of the College of Aeronautics at Cranfield'.
- A.114 1971-72. Re possible transfer of K Wolfenden and his research group from the Institute of Computer Science, due for closure, to King's College.
- A.115 1972. Re teaching loads of Chemistry staff.
- A.116 1979-82.

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SECTION B

RESEARCH

B.1 - B.312

The material in this section was found in folders arranged alphabetically by postgraduate student, research assistant or visiting colleague who worked in Gold's research team from 1949. Some individuals were assigned more than one folder and a few folders also had an indication of the topic being studied. This arrangement has been retained in the listing of the material below. At the end of the alphabetical sequence is a little miscellaneous material (B.308-B.312).

The contents of the folders may include correspondence between Gold and his co-workers on all aspects of their research, with grant-giving bodies (usually the Department of Scientific and Industrial Research/Science Research Council) and King's College administration, drafts of and correspondence about joint publications, and notes, calculations, graphs etc., many of which are by Gold. Material relating to recommendations and appointments has been transferred to Gold's general scientific correspondence files (Section F) in which similar material was found.

The research work presented here provides comprehensive documentation of the work of Gold with members of his research group, particularly that on kinetic solvent isotope effects and on radiation-induced reactions. Where applicable reference has been made to Gold's List of Publications (reproduced at pp.109-127) in the form Bibliog.no....

Research

B.1 - B.3 Adams (née Dan), C

Adams was a PhD student of Gold's. Her thesis 'Kinetic studies of the reaction of borohydride ion with carbonyl compounds' was presented in 1975. Adams co-authored three publications with Gold, Bibliog. nos. 169, 172 and 173 (1977).

B.1 Correspondence re postgraduate studies 1970-74; ms notes and calculations by Adams and Gold.

B.2, B.3 'Very rough drafts of these papers - preliminary stage of student notes with Victor's overwriting to put into possible papers' (Dr Jean Gold). Also includes correspondence from Adams 1976.

2 folders.

B.4 - B.6 Adsetts, J R

Adsetts was a PhD student of Gold's. His thesis 'The kinetics of hydrogen isotope exchange reactions in solution' was presented in 1968. Adams co-authored five publications with Gold, Bibliog. nos. 121 (1968), 127, 131, 133 and 134 (1969).

B.4 Correspondence re postgraduate studies and joint publications 1965-70.

B.5 'Notes and corrections on Adsetts thesis'; note on 'Results'.

B.6 'Adsetts Draft. Heterolytic Exchange'. Contents of Gold's folder so inscribed: ms notes and graphs.

Research

B.7 Atkins, P J

Atkins was a postdoctoral research assistant 1981-84. He co-authored seven publications with Gold, Bibliog. nos. 202, 206, 208 (1983), 209, 210 (1984), 219 (1985) and 221 (1986).

Correspondence re postdoctoral studies 1981-84; Atkins's research report, August 1982.

B.8 Baba, A B bin

Abu Bakar bin Baba, an Assistant Lecturer at the Malaysia University of Technology, was a PhD student of Gold's 1977-82. His thesis 'The formation of organic radicals via the triplet state of benzophenone and related reactions' was presented in 1982. He co-authored one publication with Gold, Bibliog. no. 218 (1985).

Material re application for postgraduate study; progress reports by Gold.

B.9 Bafna, S L

Bafna was a PhD student of Gold's. His thesis 'The kinetics of some reactions of acetic anhydride' was presented in 1949. Bafna co-authored one publication with Gold, Bibliog. no.19 (1953).

Gold's ms notes and calculations, principally on 'Base catalysis in anhydride reactions'.

B.10-B.20 Baker, D S

Baker was a PhD student of Gold's. His thesis 'Cation binding by substituted macrocyclic polyethers' was presented in 1981. Baker co-authored four publications with Gold, Bibliog. nos. 194, 198 (1982), 204 and 205 (1983).

B.10 Correspondence re postgraduate studies 1977-81; Baker's 'Latest results' 15 August 1978; Gold's 'Effect of complexing on hydrolysis sets' 19 August 1978.

Research

- B.11 Baker's 'Progress Report' 27 October 1978.
- B.12 'Obtaining the dissociation constants of monoacetals and metal salts from rates of hydrolysis' by Baker, 5 January 1979.
- B.13-B.20 'Victor's working papers on acetals. Coworker here is D S Baker' (Dr Jean Gold).
- Ms notes, graphs, drafts etc by Gold and Baker for joint publications.
- 8 folders.
- B.21-B.23 Batts, B D
- Batts, a Demonstrator in Chemistry at the University of Queensland, was a postdoctoral research assistant 1961-64. He co-authored three publications with Gold, Bibliog. nos. 96, 99 (1964) and 129 (1969).
- B.21 Correspondence re postdoctoral studies 1960-64; ms calculations found therewith.
- B.22,B.23 Correspondence and ms notes re and draft of 'Rates of water-catalysed reactions in H₂O-D₂O mixtures' (Bibliog.no.129), 1968-70.
- 2 folders.
- B.24-B.28 Benjamin, L
- Benjamin was a PhD student of Gold's supported by a grant from the British Electrical Authority. His thesis 'Sulphuric acid as an oxidising system for the redox fuel cell' was presented in 1957. Benjamin co-authored two publications with Gold, Bibliog. nos. 25 (1954) and 49 (1959).

Research

- B.24 Correspondence re postgraduate studies 1953-55; Benjamin's seventh and eighth reports to the British Electrical Authority 'On the production of electrical energy from redox processes' for October 1953 - March 1954 and April - October 1954.
- B.25 'The work function & surface potential', 17pp typescript + refs.
- B.26, B.27 Ms notes and calculations, some dated 1953.
2 folders.
- B.28 Correspondence re 'Fuel oxidation by sulphuric acid' (Bibliog. no. 49), 1959. 'Fuel oxidation in H₂SO₄ media' by Benjamin, 14pp ms + graph; ms notes.
- B.29 Berisha, K

Berisha, of the University of Priština, Yugoslavia, studied the synthesis of crown ethers under Gold, 1978.

Correspondence re arrangements for research 1977-78.
- B.30-B.32 Bethell, D

Bethell was a PhD student of Gold's. His thesis 'Kinetic studies of some reactions involving carbonium ions' was presented in 1956. Bethell co-authored seven publications with Gold, Bibliog. nos. 43 (1956), 45, 46, 47, 48 (1958), 51 (1959) and 116 (1967). In 1974 Bethell became co-editor with Gold of Advances in Physical Organic Chemistry (see E.1 - E.31).

Research

B.30 Correspondence re postgraduate studies 1953-57.

B.31 'Progress report to DSIR [Department of Scientific and Industrial Research] from D Bethell' for October 1953 - May 1955; Gold's ms notes.

B.32 Correspondence principally re (unsuccessful) application for DSIR grant for research into acidity functions in strongly basic media , 1958.

B.33-B.36 Blackie, M S

Blackie was a PhD student of Gold's. His thesis 'Studies in proton resonance spectroscopy' was presented in 1958. Blackie co-authored four publications with Gold, Bibliog. nos. 52, 53, 54 and 58 (1959).

B.33 Correspondence re joint publications and Chemistry Department equipment 1959-60.

B.34 'Determination of the instability constant of $[\text{Zn}(\text{CN})_4]^{2-}$ ' by Blackie and Gold. 9pp ms + graph.

B.35 ' $\text{Zn}(\text{CN})_4^{2-}$ calculations'. See Bibliog. no.52.

B.36 $\text{Ni}(\text{CN})_6^{4-}$ calculations. See Bibliog. no. 54.

B.37 Block, H

Block was a PhD student of Gold's. His thesis 'Some physico-chemical studies of deuterated metal amines' was presented in 1958. Block co-authored one publication with Gold, Bibliog. no.50 (1959).

Correspondence re postgraduate studies 1955-56; correspondence arising from comments on their joint publication 1959-60; ms notes etc.

Research

B.38,B.39 Booth, G C

Booth was an MSc student of Gold's. His thesis 'Some molecular weight determinations of dextran' was presented in 1955. Booth co-authored one publication with Gold, Bibliog. no. 38 (1956).

Correspondence re postgraduate studies and joint publication 1954- [?56]; graphs.

2 folders.

B.40-B.45 Brett, C L

Brett was a PhD student of Gold's. His thesis 'Radiation induced aromatic hydrogen isotope exchange in aqueous solution' was presented in 1972. Brett co-authored five publications with Gold, Bibliog. nos. 142, 148 (1971), 152, 153 and 154 (1973).

B.40 Correspondence re postgraduate studies 1968-72.

B.41 Correspondence with the Chemical Society re joint publications, 1973.

B.42 'Radiolysis of aqueous mesitylene solution' by Brett, 32pp ms with corrections by Gold.

B.43 Untitled 8pp ms draft by Brett beginning 'Carrier mesitylene was prepared by the method described by John Adsetts...'. Gold's calculations found attached.

B.44 Graphs 'For the attention of Prof V Gold. Plots of $\frac{10^6 \times [SH]}{\text{rate}}$ vs [scavenger] '.

B.45 Miscellaneous calculations and notes by Brett and Gold.

Research

- B.46 Brown (née Armstrong), D J
- Brown served as Scientific Assistant/Research Technician 1974-75.
- Correspondence re employment; ms notes on 'Preparation of PRCTO'; ms notes and graphs on 'A series of initial experiments... to try to determine optimum pH and concentrations [? of peroxides]'.
- B.47-B.50 Bukka, K
- Bukka was a postdoctoral research assistant studying some chemical applications of tritium 1973-75.
- B.47 Brief correspondence re postdoctoral research 1973-74.
- B.48 Spectra, dated June-July 1974.
- B.49 'Bukka Final Report 7-10-1975' on work on hydrogen exchange between nitrobenzene and tritiated NaBH_4 .
- B.50 Notes on work on deiodination of 2, 4-dimethoxyiodobenzene and hydrogen exchange in dimethoxybenzene, some dated February 1976; calculation by Gold beginning 'Let substrate A contain m exchangeable positions, assumed to be of equal reactivity'.
- B.51-B.54 Butler, A R
- Butler was a PhD student of Gold's. His thesis 'Hydrolytic reactions of compounds containing the acyl group' was presented in 1961. Butler co-authored seven publications with Gold, Bibliog. nos. 65, 67 (1960), 69, 70 (1961), 72, 73 and 74 (1962).
- B.51 Correspondence re postgraduate studies 1958-61. Includes Butler's report to the DSIR for 1958-60.

Research

- B.52 Correspondence re joint publications with the Chemical Society and others, 1959-62.
- B.53,B.54 Miscellaneous notes on the hydrolysis of anhydrides.
2 folders.
- B.55-B.57 Calmon, J-P and M

J-P Calmon, Assistant Lecturer at the Faculté des Sciences, Toulouse, did postdoctoral research under Gold May-October 1968. He was assisted by his wife who was studying for her PhD. The Calmons co-authored one publication with Gold, Bibliog. no.130 (1969).
- B.55 Correspondence re postdoctoral research and joint publication 1967-69.
- B.56 Ms notes on pyridine and 2,6-lutidine-catalysed iodination of diethyl ketone.
- B.57 Computer print-out found with preceding, dated 16 December 1968.
- B.58 Cartlidge, J

Cartlidge was a postdoctoral research fellow from 1960.

Correspondence re fellowship, 1960; ms notes on 'Relaxation' by Gold.

Research

B.59 Colli, H N

Colli, a researcher with the Argentine National Petroleum Company, was an MPhil student of Gold's working on techniques in nuclear magnetic resonance 1971-72. Colli co-authored one publication with Gold, Bibliog. no.151 (1973).

Correspondence re postgraduate studies 1971-74.

B.60-B.63 Colosimo, M

Colosimo, of the Italian Laboratorio di Chimica Nucleare, was a postdoctoral research assistant 1972, working on irradiation of solutions of ethanol and tartaric acid. Colosimo co-authored one publication with Gold, Bibliog. no.165 (1975).

B.60 Correspondence re postdoctoral appointment 1971-72.

B.61 Correspondence re details of experiments carried out and joint publication 1973, 1975.

B.62 Ms and typescript drafts of ' γ -irradiation of 10% aqueous solutions of ethanol', 'Radiolysis of aqueous solutions of ethanol' and 'Hydrogen isotope exchange and related reactions during radiolysis of aqueous solutions of ethanol' by Colosimo.

B.63 Ms and typescript drafts of 'Radiation-induced hydrogen isotope exchange at asymmetric carbon atoms in aqueous solutions of dimethyl-(+)-tartrate and dimethyl-meso-tartrate' and ' γ -irradiation of solutions of tartaric acid containing THO' by Colosimo.

Research

B.64 Cooper, A

Cooper was a postdoctoral research assistant 1969-70, working on the stereochemistry of the radiation induced exchange of tritium in tritiated water and trans-cyclohexane-1,2-diol. Cooper co-authored one publication with Gold, Bibliog. no.163 (1975).

Correspondence re postdoctoral research 1969-70, and joint publication 1975; 'Reaction between tritiated water and trans-cyclohexane-1,2-diol' by Cooper, August 1970; graphs.

B.65-B.68 Crampton, M R

Crampton was a PhD student of Gold's. His thesis 'A study of alkaline media and their interaction with aromatic nitro-compounds' was presented in 1965. Crampton co-authored seven publications with Gold, Bibliog. nos 97, 100 (1964), 103, 108 (1965), 109, 111 (1966) and 113 (1967).

B.65 Correspondence re postgraduate studies and joint publications 1963-67.

B.66 'Report to DSIR by M R Crampton... The nature of alkaline media and their interaction with organic solutes', [?1964]; 'The interaction between s-trinitrobenzene and amines' by Crampton and Gold', [?1965].

B.67 Ms notes and graphs by Crampton. Also includes miscellaneous spectra obtained by Crampton.

B.68 Ms notes by Gold.

Research

B.69 Davis, S G

Davis, Professor of Chemistry at University of Alberta, spent a sabbatical term in Gold's laboratory 1955-56.

Brief correspondence re arrangements for visit; ms notes and calculations by Gold.

B.70 Emery, A R

Emery was Gold's first postgraduate student. His PhD thesis 'A quantitative study of the reactivities of some carboxylic acid anhydrides' was presented in 1949. Emery co-authored three publications with Gold, Bibliog. nos. 6, 7 and 8 (1950).

Correspondence re joint publications 1949-50; ms notes by Gold and Emery on reactivities of carboxylic anhydrides.

B.71-B.73 Feather, J A

Feather was a PhD student of Gold's. His thesis 'Kinetic studies of some base-catalysed reactions in aqueous solution' was presented in 1963. In 1965 he was awarded a NATO Fellowship for further study at King's College. Feather co-authored two publications with Gold, Bibliog. nos.80 (1963) and 104 (1965).

B.71 Correspondence re postgraduate studies and joint publication 1960-64. Includes Feather's Final Report to the DSIR 'Steric effects in acid-base catalysed reactions'.

B.72 Miscellaneous data found with the preceding. Includes photographs of models of molecules.

B.73 Brief correspondence re postdoctoral research 1965; Feather's report to the SRC on 'Very slow reactions: hydrogen exchange between benzene and tritiated perchloric acid' for October 1965 - April 1966.

Research

B.74,B.75 Garvey, J P

Garvey was a postdoctoral research assistant from 1968. He co-authored two publications with Gold, Bibliog. nos. 163 and 165 (1975).

B.74 Brief correspondence re postdoctoral research 1968.

B.75 'Garvey's Notes': spiral-bound notebook so inscribed dated 1969, paginated from the front 1-57 and from the back 60-58, containing ms draft beginning 'There have been several reports on the replacement of hydrogen by tritium at an asymmetric centre by means of hot-atom recoil reactions'. The pages at the back contain references.

B.76-B.85 Glasoe, P K

Glasoe, Professor of Chemistry at Wittenberg University, Springfield, Ohio, spent a sabbatical year 1968-69 in Gold's laboratory researching isotope effects in the dicarboxylic acids.

Correspondence re arrangements and research topics 1967-69.

B.77-B.81 Photocopies of Glasoe's laboratory notebooks.

B.77-B.79 'Book I', 30 September 1968 - 28 February 1969.

3 folders.

B.80, B.81 'Book II', 3 March - 4 June 1969.

2 folders.

Research

- B.82-B.85 Miscellaneous notes, graphs, calculations and computer print-outs.

4 folders.
- B.86 Gould, S E

Gould was a postdoctoral research assistant from 1969, working on an SRC project 'Catalytic and structural studies on complexes of group VIII metals'. Gould co-authored one publication with Gold, Bibliog. no. 160 (1974).

Correspondence re postdoctoral studies 1969; ms draft of joint publication.
- B.87-B.91 Grant, J L

Grant was a postdoctoral research assistant 1975-76, working on super-acid systems. Grant co-authored two publications with Gold, Bibliog. nos.160 (1974) and 167 (1976).
- B.87 Correspondence re postdoctoral research 1974-75.
- B.88 'First draft' of work on competition between protonation sites in aryl halides and aromatic benzene; 'Intermolecular proton exchange reactions between ArH and ArH₂⁺'. 2nd draft 19 June 1976'.
- B.89 Photocopied lists of references for 'Spectroscopic investigation of hydronium ions' and 'Hydrated protons' compiled by Grant.
- B.90 Photocopies of Grant's notes on the literature.
- B.91 Miscellaneous notes and spectra. Includes data from 'H N.M.R. experiments' February 1976 by Grant and K P Morris.

Research

B.92,B.93 Gregory, M J

Gregory was a postdoctoral research assistant 1967-68, working on the application of tritium to the study of very slow reactions. Gregory co-authored one publication with Gold, Bibliog. no.156 (1974).

B.92 Correspondence re postdoctoral research 1967-68.

B.93 Untitled typescript draft beginning 'Solutions of mesitylene or benzene in water containing tritium... were found to undergo an exchange reaction, in which hydrogen atoms in the aromatic ring underwent exchange with tritium in the water', 17pp + tables and references; miscellaneous notes and graphs.

B.94-B.100 Grist, S

Grist was a PhD student of Gold's. His thesis 'Solvent isotope effects in hydroxylic media' was presented in 1970. Grist co-authored six publications with Gold, Bibliog. nos. 122 (1968), 143, 145, 146, 147 (1971) and 149 (1972).

B.94 Correspondence re postgraduate studies and joint publications 1967-71, and undated correspondence from others found with it.

B.95-B.97 Computer print-outs, annotated by Grist and Gold.

B.95 'Equil water effect codes in H₂O/MeOH', April 1970 and May 1970; 'Dichloro acetic acid dimerization /association calculations to evaluate ΔR tables', nd.

B.96 'Salt shifts in MeOH' February 1971; 'Data for fractionation factor determinations' February 1971.

B.97 Data for 'Table XXII', March 1971; 'Keten acetal Regression of k_2 upon m recalculated with k_2 values brought to common concentrations of acid', May 1971.

Research

- B.98 Spectra of 'Crude CNCH₂ - C(OMe)₃ prepd. in MeOD',
16 September 1968. With ms notes found attached.
- B.99,B.100 Miscellaneous ms notes, calculations and graphs by
Grist and Gold, some dated 1968 and 1971.

2 folders.
- B.101,B.102 Gruen, L C

Gruen was a postdoctoral research student 1964-65, working
on very slow chemical reactions. He co-authored one
publication with Gold, Bibliog. no.110 (1966).
- B.101 Correspondence re postdoctoral studies 1963-64, and joint
publication 1965-66; Gruen's 'C.S.I.R.O. Overseas
Postdoctoral Studentship Report' for October 1965.
- B.102 Data on 'Benzene H-T Exchange'; miscellaneous ms notes,
calculations and graphs.
- B.103-B.105 Hampson, C A

Hampson, a research worker with Upjohn Ltd., was a PhD
student of Gold's. His thesis 'Solvent effects on the
kinetics of organic reactions with particular reference
to problems of drug degradation' was presented in 1982.
- B.103 Correspondence re postgraduate study 1979-82.
- B.104 'Drug stability and solvent effects. First year progress
report' by Hampson.

Research

B.105 'Final report on ... "Kinetics of drug degradation"
1st October 1982'; Gold's ms notes 'Re Hampson'.

B.106-B.109 Hawkes, G L

Hawkes was a PhD student in the Chemical Engineering Department of King's College, supervised by Gold from September 1967. He was supported by a grant from the United Kingdom Atomic Energy Authority. Hawkes's thesis 'The determination of carbon activity in the iron/carbon system by electrochemical methods' was presented in 1967.

B.106 Correspondence re research 1966-67.

B.107 Typescript drafts by Hawkes on the solubility of graphite and cementite in austenite, 1966.

B.108 Hawkes's report on 'U.K.A.E.A. extramural contract no.1874' for January-March 1967. This work continued that done by Hawkes for his thesis.

B.109 'Data of G L H[awkes]. analysed by computer'; note on data from experiments.

B.110,B.111 Hilton, J

Hilton was a PhD student of Gold's. His thesis 'Kinetic studies on the hydrolysis reactions of some acylating reagents' was presented in 1954. Hilton co-authored five publications with Gold, Bibliog. nos. 24, 26 (1954), 28, 29 and 31 (1955).

Research

- B.110 Correspondence re postgraduate studies and joint publication 1950-55, that 1951 chiefly re apparatus used in experiments; photographs of equipment.
- B.111 Ms notes and graphs on the hydrolysis of acetic anhydrides; 'Description of photo-electric relay', 6pp typescript; draft letter from Gold to R P Bell enclosing 'Some developments of the thermal method of following fast reactions' by Gold and Hilton, 3pp typescript.
- B.112 Jais, M J bin
- Mohamed Jamil bin Jais, a chemistry tutor at the National University of Malaysia, Kuala Lumpur, was a PhD student of Gold's. His thesis 'Studies of solutions of hydrogen bromide in non-aqueous solvents' was presented in 1980. Jais co-authored two publications with Gold, Bibliog. nos. 179 (1979) and 183 (1980).
- Correspondence re postgraduate studies 1976-81.
- B.113-B.116 Jefferson, E G
- Jefferson was a PhD student of Gold's. His thesis 'The kinetics of some acylation reactions' was presented in 1951. Jefferson co-authored three publications with Gold, Bibliog. nos. 20, 21 (1953) and 24 (1954).
- B.113 Jefferson's 'Summary of work completed during the period 1.10.49 to 1.4.50'.
- B.114 Jefferson's 'Research report for the session 1949-50', 67pp ms + graphs.

Research

- B.115 Correspondence re joint publication [?1952-53].
- B.116 'A comparison of the mechanisms of solvolytic acylations by acetic anhydride and benzoyl chloride' by Gold, Jefferson and J Hilton, extensively corrected ms draft; miscellaneous ms notes, calculations and graphs.
- B.117-B.121 Kessick, M A
- Kessick was a PhD student of Gold's. His thesis 'Kinetic hydrogen isotope effects in the hydration of olefins' was presented in 1964. Kessick co-authored four publications with Gold, Bibliog. nos.95, 98 (1964), 105 and 106 (1965).
- B.117 Correspondence re postgraduate studies and joint publication 1961-65.
- B.118 Kessick's 'Report for the Department of Scientific and Industrial Research Hydrogen isotope effects in the hydration of olefins' for May 1963; calculations paginated 1-17 (pages 5, 8, 11 missing).
- B.119,B.120 Ms notes, calculations and graphs by Kessick and Gold.
2 folders.
- B.121 Computer print-outs.
- B.122-B.128 Laali, K
- Laali was a postdoctoral research assistant 1977-78, working on kinetic experiments on superacid solutions by nuclear magnetic resonance techniques. He co-authored three publications with Gold, Bibliog. nos.188(1981), 216 and 217 (1985).

Research

- B.122 Correspondence re appointment 1976-78.
- B.123 'Some notes on line shape analysis and the computer work' by Laali, 5pp ms, 9 December 1977.
- B.124 Correspondence re research, July-October 1978.
- B.125-B.127 Draft on superacid work by Laali, 77pp ms + refs, 'Revised 5/10/78'.

3 folders.
- B.128 'Deuterium exchange processes in super acidic media' by Laali, 10pp photocopied ms + refs and figs, December 1978.
- B.129 Lambert, R W

Lambert was a PhD student of Gold's. His thesis 'Chemical studies with tritium' was presented in 1959. Lambert co-authored two publications with Gold, Bibliog. nos.57 (1959) and 60 (1960).

Brief correspondence re postgraduate studies and joint publication 1956-60; 'Aromatic tritium exchange in water and deuterium oxide' by Gold, Lambert and D P N Satchell, 5pp typescript (Bibliog. no.57); ms notes by Gold.
- B.130-B.133 Laughton, P M

Laughton was a Visiting Professor c. 1973.
- B.130 Letter from Laughton on eve of departure from King's College re data collected, 27 July 1973; note on 'Optimization of values for Kw and Kac' by Laughton; Laughton's 'Calculations on Horacio's [H N Colli] data' See B.59.

Research

B.131,B.132 Computer print-outs of program calculating 'the concentrations of acetone complexes for a converging series of values of KAC, the calculated shifts of the complexes for various equilibrium expressions, and their standard deviations', July 1973. That at B.131 is annotated by Laughton.

2 folders.

B.133 Photocopies of notes by Laughton: 'Shift reagent-Lit[erature] search to Dec 72'; calculations.

B.134-B.145 Lee, J R

Lee was a postdoctoral research assistant 1967-69, working on very slow reactions. He co-authored one publication with Gold, Bibliog. no.141 (1971).

B.134 Brief correspondence re postdoctoral research 1967.

B.135-B.137 'Deuterium exchange of resorcinol 2-methyl-resorcinol and phenol. N M R spectra'. Contents of Lee's folder so inscribed divided into three: spectra, ms notes, data. Some of the material is dated July or September 1969.

3 folders.

B.138 'Diacetone alcohol with resorcinol ?runs '. Data so labelled, August 1969; data on 'Diacetone alcohol + NaOH'.

B.139 Computer print-outs of 'General program to calculate buffer conc. for dibasic acid NaOH' and 'Summary list', September 1969, and 'Computed concentrations for dibasic acid with HCl & NaOH', November 1969.

Research

- B.140 'Resorcinol NaOH-r-rate profile calculation'.
Computer print-out so inscribed dated 13 January 1970.
With drafts of tables [? for joint publication]
found with it.
- B.141 Brief correspondence with Lee re data for joint
publication 1970.
- B.142 'The resorcinol question' by Lee, 18pp ms with graphs
found with it.
- B.143-B.145 'Resorcinol'. Contents of Lee's folder so inscribed
divided into three.
- B.143 'Hydrogen exchange in resorcinol' by Lee, 5lpp photo-
copied ms draft.
- B.144 Annotated computer print-out.
- B.145 Miscellaneous ms notes, calculations and graphs by Lee
and Gold.
- B.146 Leonidou, E
- Leonidou was a postdoctoral research assistant c.1972-73.
He co-authored one publication with Gold. Bibliog.
no. 165 (1975).
- Ms notes, some dated 1973; nuclear magnetic resonance
spectra 1972-73.
- B.147-B.156 Liddiard, C J
- Liddiard was a PhD student of Gold's supported by a
grant from Shell Research Ltd. His thesis 'Catalysis
of hydrolysis reactions by macromolecular acid-base
systems' was presented in 1974. Liddiard co-authored
three publications with Gold, Bibliog. nos. 162 (1975),
170 and 171 (1977).

Research

- B.147 Brief correspondence re postgraduate studies 1971-74;
 'Research Report: September 1971 to May 1973
 Studies on the hydrolysis of p-nitrophenyl acetate and
 ethyl vinyl ether catalysed by a carboxylic acid ion
 exchange resin (Amberlite IRC-50)' by Liddiard.
- B.148,B.149 'Summary of work to be included in future publications'
 by Liddiard, part of application to the Alexander von
 Humboldt Foundation February 1974.

 2 folders.
- B.150 Correspondence re joint publications 1975-76.
- B.151 'Liddiard Pt I working papers': miscellaneous notes,
 graphs etc., so labelled. Some dated April 1976.
- B.152 'Liddiard. notes on research paper with Victor'
 (Dr Jean Gold): miscellaneous notes, graphs etc.
 Includes 'A note on isotope effect' dated August 1976.
- B.153,B.154 Ms draft on the hydrolysis of EVE (ethyl vinyl ether)
 and DMA (dimethyl acetal) by Liddiard.
- B.153 'Theory', paginated 1-12; 'Experimental', paginated
 1-12.
- B.154 'Discussion', paginated 1-52.
- B.155 'The use of ion exchangers as catalysts in liquid phase
 reactions' by Liddiard, 23pp ms.
- B.156 Miscellaneous notes, calculations and graphs by Liddiard
 and Gold.

Research

B.157,B.158 Long, F A

Long was Professor of Chemistry at Cornell University.

B.157 Brief correspondence 1970 from Long re Gold's 'H₂O ionization paper' (Bibliog. no. 114, 1967) and draft of 'resorcinol paper' (Bibliog. no. 141, 1971); ms calculations.

B.158 Annotated computer print-out of 'program hydrox [?ide]' dated November 1970.

B.159-B.175 Lowe, B M

Lowe was a PhD student of Gold's. His thesis 'The measurement of some ionic equilibria by the use of a glass electrode' was presented in 1964. Lowe co-authored six publications with Gold, Bibliog. nos. 78 (1963), 94 (1964), 114 (1967), 123 (1968), 132 (1969) and 229 (1987).

B.159 Correspondence re postgraduate studies 1960-62. Includes material re the University of London Mercury Computer used by Lowe in his research.

B.160 Correspondence re postgraduate studies and joint publication 1963; ms calculations by Gold, some on back of 1961 Physical Chemistry examination paper.

B.161 Correspondence re joint publication of work on 'the glass electrode mechanism' August-November 1964.

B.162 'Equilibrium measurements & spectroscopic evidence relating to L'. Contents of a folder so inscribed: 'The deuterium solvent effect on acid-base equilibria in strongly acidic solutions', 6pp ms draft related to Bibliog. no.94 (1964); 'The partition function ratio H_2TO^+ / H_3O^+ (H Block)', 10pp typescript; ms notes and calculations by Gold.

Research

- B.163 Typescript summary of 'Deuterium solvent isotope effects on acid-base equilibria in dioxan-water mixtures' (Bibliog. no.94, 1964); draft equations and tables for the draft; ms notes on dioxan-water isotope effects.
- B.164,B.165 'E.M.F.[Electromotive force]'. Contents of a folder so inscribed divided into two: correspondence and notes, 1965, chiefly re joint papers on 'Measurement of solvent isotope effects with the glass electrode (Bibliog. nos. 114 and 123).
- B.164 Correspondence; 'Measurements of equilibrium constants in D₂O-H₂O solvent mixtures', 2Opp typescript.
- B.165 'Replaced' pages from typescript draft of Bibliog no.123; ms notes by Gold.
- B.166 Correspondence re Lowe's e.m.f. data and publication of Bibliog. no.114, 1966.
- B.167 Correspondence re comments of A K Covington on Lowe's PhD thesis, April 1967. Also includes Lowe's 11pp 'List of isotope effects'.
- B.168 Letter from Lowe enclosing details of his 'calculations on the deuterium gas electrode' and Gold's 'original notes on which the work is based', 8 August 1967.
- B.169-B.171 'Glass electrode Part 2'. Contents of a folder so inscribed divided into three: material re Bibliog. no.123 (1968).
- B.169 Correspondence and notes, September-November 1967, February 1968.

Research

- B.170 Letter from Lowe, 21 June 1979, stating 'I cannot find my file on the glass electrode paper... I am fairly certain that a treatment of glass electrode behaviour in $H_2O + D_2O$ has not been reported and that we did not publish our attempt because it was not entirely satisfactory'. With 'Behaviour of the glass electrode in $H_2O - D_2O$ mixtures', 21pp ms.
- B.171 Typescript draft of the preceding, 18pp + figures.
- B.172 Correspondence re joint publication 1968.
- B.173 Correspondence re joint publication 1969. Includes corrected draft of 'The behaviour of the hydrogen electrode in $H_2O - D_2O$ mixtures', 15pp typescript + figure (Bibliog. no.132).
- B.174,B.175 Correspondence re calculations carried out by Lowe for Gold 1971. With computer print-outs of results.

2 folders.
- B.176-B.178 McAdam, M E

McAdam was a PhD student of Gold's. His thesis 'Radiation induced aliphatic hydrogen isotope exchange in aqueous solution' was presented in 1973. McAdam co-authored five publications with Gold, Bibliog. nos. 161, 163, 164 (1975), 166 (1976) and 174 (1978).
- B.176 Correspondence re postgraduate studies 1970-73; ms notes found with it.
- B.177 'Outline summary of results obtained' by McAdam, August 1972.

Research

- B.178 Correspondence re joint publications 1974-77. Chiefly re diol and dioxan papers (Bibliog. nos. 163 and 164).
- B.179-B.183 Mah, T
- Mah (later Giddings) was a postdoctoral research assistant 1978-80, working on the clarification of features of the basicity of 2,6-dimethyl pyrone and related heterocyclics as part of an SRC funded project 'Quantitative studies of protonation in super-acid systems. Mah co-authored one publication with Gold, Bibliog. no. 187 (1981).
- B.179 Gold's application to SRC for grant and correspondence arising 1977-80.
- B.180 Correspondence with Mah re postdoctoral studies 1977-79. Includes 'General progress' report, 21 July 1978, with Gold's notes and comments.
- B.181,B.182 Nuclear magnetic resonance (nmr) spectra obtained June - August 1978, sent to Gold 31 August.
- 2 folders.
- B.183 Nmr spectra for 'Talat's paper'; photocopied data.
- B.184-B.190 Major, M A
- Major was a PhD student of Gold's. His thesis 'A study of some photolytically induced hydrogen isotope exchange reactions in aqueous solution' was presented in 1973. Major co-authored two publications with Gold, Bibliog. nos. 156 and 157 (1974).
- B.184 Correspondence re postgraduate studies and joint publications 1968-73.

Research

- B.185 Untitled draft by Major beginning 'Previous work has demonstrated the existence of a β radiation induced hydrogen exchange reaction for aqueous solutions of a range of both aromatic compounds and alcohols', 14pp photocopied ms + graphs, 5 December 1970. With the draft are Gold's queries, and ms graphs on benzene activity by Major.
- B.186 Ms notes and calculations by Gold and Major. Includes 'Effect of oxygen scavenging of hydrogen atoms' and 'pH-dependence calculations'.
- B.187,B.188 'Kinetics of hydrogen isotope exchange reactions. Part 24. Exchange between benzene and water initiated by photolysis of potassium iodide solutions' (Bibliog. no.156).
- B.187 Incomplete ms draft with extensive correction.
- B.188 38pp final ms draft.
- B.189,B.190 'Part 25. pH-dependence of aromatic exchange initiated by photolysis of aqueous potassium iodide solutions'.
- B.189 Incomplete ms draft with extensive correction.
- B.190 29pp final ms draft.
- B.191 Miri, A Y
- Miri was a postdoctoral research assistant 1974-75. He co-authored one publication with Gold, Bibliog. no.181 (1980).
- Correspondence re postgraduate studies 1974-75.

Research

B.192-B.197 Morris, K P

Morris was a PhD student of Gold's. His thesis 'Proton-transfer reactions in highly basic and highly acidic solvent systems' was presented in 1977. Morris co-authored five publications with Gold, Bibliog. nos. 184 (1980), 188 (1981), 195 (1982), 216 and 217 (1985).

B.192 Correspondence re postgraduate studies 1974-76. Also includes correspondence re commercial sources of fluorochemicals.

B.193 Morris's 'Progress Report June 1976 Solvent isotope effects in highly basic and highly acidic media'.

B.194 'Organic bases in magic acid & theory'. Contents of folder so inscribed: data on exchange between magic acid and various weak organic bases, some dated March 1977.

B.195 Correspondence re joint publications 1979-82.

B.196,B.197 Ms notes, calculations and graphs etc.
2 folders.

B.198,B.199 Nowlan, V J

Nowlan was a postdoctoral research assistant 1973, working on borohydride reactions. He co-authored one publication with Gold, Bibliog. no.158 (1974).

B.198 Correspondence re postdoctoral studies 1972, and joint publication 1974.

B.199 'Synthesis of tritiated NaBH_4 ' by Nowlan, 9pp ms + refs and figs; ms notes and calculations.

Research

B.200-B.202 Oakenfull, D G

Oakenfull was a PhD student of Gold's although much of his research was undertaken in the laboratory of T Riley (B.213-B.217) at the Brighton College of Technology. His 'Studies of the mechanism of base catalysis in ester hydrolysis' was presented in 1966. Oakenfull co-authored two publications with Gold (and Riley), Bibliog. nos. 112 (1966) and 118 (1968).

B.200 Correspondence with Riley and Oakenfull re postgraduate studies 1963-66.

B.201 Correspondence with Riley and Oakenfull re joint publications 1967 and nd.

B.202 Ms notes, calculations and graphs by Gold, Riley and Oakenfull.

B.203-B.208 Pemberton, S M

Pemberton was a scientific assistant in Gold's laboratory 1975-76 and a postdoctoral research assistant 1976-79. She co-authored one publication with Gold, Bibliog. no. 189 (1981).

B.203 Correspondence re appointment and studies 1975-81.

B.204-B.206 Drafts by Pemberton.

B.204 'Thesis contents' (on work on porphyrins), 4pp ms, May 1976;
'Incorporation of tritium into dioxan using titanium III/H₂O₂ as a source of hydroxyl radicals', 4pp ms, 7 June 1976;
'Hydrogen exchange in dioxan induced by the titanium (III)/H₂O₂ system', 10pp typescript + figs, March 1977, with ms notes.

B.205 'Hydrogen exchange in dioxan induced by "Ti(OH)₃"', 6pp ms + fig, October 1977; 'Reactions of aqueous Ti(III) suspensions: Hydrogen evolution and hydrogen exchange', 3pp typescript, May 1978; 'Research report' on hydrogen exchange, 6pp photocopied ms, January 1979; 'Yield of exchange hydrogen in ether/low valent metal ion systems', 5pp photocopied ms, March 1979; 'Attempts to demonstrate the existence of a carbonionic intermediate in radical-induced hydrogen exchange of dioxan', 4pp photocopied ms, November 1979.

Research

- B.206 'Radical-induced exchange of carbon-bound hydrogen in organic substrates. Part I. Hydrogen exchange in dioxan using metal-ion/hydrogen peroxide systems', 6pp ms + tables and figs, nd; 'Part II. Hydrogen exchange in dioxan using titanium hydroxide and resin-bound titanium (III)', 5pp ms + table, nd.
- B.207 Summary of results of experiments 103-600, March 1979; summary of results of experiments 593-732, nd.
- B.208 Ms notes by Gold and Pemberton.
- B.209,B.210 Perez, G
- Perez, of the Italian Laboratorio di Chimica Nucleare, was a visiting researcher in Gold's laboratory 1970-71 supported by a NATO Fellowship. He co-authored one publication with Gold, Bibliog. no.153 (1973).
- B.209 Correspondence re visit 1970-71.
- B.210 Data and notes by Perez on anisole and toluene.
- B.211,B.212 Pross, A
- Pross was a postdoctoral research assistant 1971. He co-authored one publication with Gold, Bibliog.no.166 (1976).
- B.211 Correspondence re postdoctoral appointment 1970-71; 'Determination of water in alcohols', 3pp typescript + fig.
- B.212 'Aliphatic hydrogen exchange in t Butanol' by Pross, 12pp ms + tables and figs; typescript drafts of tables with ms annotation by Gold.

Research

B.213-B.217 Riley, T

Riley was a PhD student of Gold's. His thesis 'A study of some acid-catalysed alkylation reactions' was presented in 1959. Riley co-authored six publications with Gold, Bibliog. nos.51 (1959), 61 (1960), 68 (1961), 75 (1962), 112 (1966) and 118 (1968). Riley supervised the laboratory work of D G Oakenfull, a PhD student of Gold's in the early 1960s. See B.200-B.202.

B.213 Brief correspondence re postgraduate studies 1956, 1959, and joint publication 1960.

B.214 'Alkylation of methoxybenzene'. Contents of folder so inscribed : correspondence re joint publication (Bibliog. no.51) 1958-59, data, graphs etc.

B.215 'Difference in technique from previous work [with HClO₄]' by Riley, 1lpp ms.

B.216,B.217 Ms notes, calculations, graphs, etc., by Gold and Riley.
2 folders.

B.218 Robinson, S R

Robinson was a postdoctoral research assistant 1975-77. He co-authored one publication with Gold, Bibliog.no.181 (1980).

Correspondence re postdoctoral appointment 1975-76, and joint publication 1979; draft of 'Reactions of sodium borohydride with some 1-substituted 2,4-dinitrobenzene' by Robinson, 1lpp typescript and ms with Gold's correction and annotation.

Research

B.219-B.226 Rochester, C H

Rochester was a PhD student of Gold's. His thesis 'Kinetic and equilibrium studies of organic solutes in alkaline media' was presented in 1962. Rochester co-authored nine publications with Gold, Bibliog. nos.66 (1960), 86, 87, 88, 89, 90, 91, 92 and 93 (1964). Bibliog. nos. 86-93 were parts 1-8 of 'Reactions of aromatic nitro-compounds in alkaline media' published in J. Chem. Soc.

B.219 Correspondence re postgraduate studies 1959-61, and re joint publication 'The interaction of 1, 3, 5-trinitrobenzene and aqueous alkali: a light sensitive aromatic substitution' (Bibliog. no.66) including Gold's much revised proof copy.

B.220-B.222 Correspondence re Rochester's research at Nottingham University, 1962-63 and nd, for Bibliog. nos. 86-93. Includes reports and data from Rochester's experiments, Gold's ms notes, Rochester's answers to queries from Gold and his own queries to Gold.

3 folders.

B.220 1962

B.222 Nd

B.221 1963

B.223 'Part III Picramide and DMP [dimethyl-picramide] + NaOMe'. Contents of folder so inscribed: material similar to above, dated April and July 1963, re Bibliog. no.88.

B.224 Correspondence with the Chemical Society re joint publications 1963-64, and brief correspondence with P R Hammond arising.

B.225 'Reactions of aromatic nitrocompounds in alkaline media. Part VII. Behaviour of picric acid and of two dihydroxy-dinitrobenzenes in aqueous sodium hydroxide' (Bibliog. no.92), 29pp ms.

B.226 Ms notes, calculations and graphs by Gold and Rochester.

Research

B.227-B.237 Rolston, J H

Rolston was a postdoctoral research assistant 1968-69, working on aspects of homogeneous catalysis studied with the aid of tritium. He co-authored four publications with Gold, Bibliog. nos. 135, 138, 139 and 140 (1970).

B.227 Correspondence re postdoctoral research 1966-68.

B.228 'Slow exchange reactions of alcohols in tritiated water. Research report Jan-Sept 1968' by Rolston. With graphs found with it.

B.229-B.233 Rolston's set of drafts on studies undertaken.

B.229 '3°- butanol exchange study', 11pp ms.

'Chemical and photochemical study', 16pp ms.

B.230 'Gamma radiolysis study', 33pp ms.

B.231 'Salt effects on exchange', 21pp ms. With ms notes by Gold and Rolston found with it.

B.232 'Scavenger study of exchange', 32pp ms (some photocopied ms). With 3pp ms addition found with it.

B.233 'Stereochemical study', 9pp ms + photocopied graphs.

B.234-B.236 Correspondence and notes re joint publications 1969-70.
3 folders.

B.234 1969 Dec - 1970 Jan

B.236 1970 Mar - Sept

B.235 1970 Feb

Research

B.237 Rolston's 'Data sheets'. Nd.

B.238,B.239 Routledge, P J

Routledge was a postdoctoral research associate from 1983.
He co-authored one publication with Gold, Bibliog. no.219 (1985).

B.238 Brief correspondence re postdoctoral appointment 1983, 1985;
'DMSO and hydroxylic solutes' by Gold, 6pp photocopied ms
annotated 'Routledge 7-11-83' (probably plan of research for
Routledge).

B.239 'A study of the H₂O/D₂O equilibrium in acetonitrile' by
Routledge 'This work was done between June and August 1984';
ms notes by Gold marked 'Routledge'.

B.240 Satchell (née Smith), R S

Satchell was a PhD student of Gold's. Her thesis 'Kinetic
studies of aliphatic substrates in acidic media' was presented
in 1962. Satchell co-authored two publications with Gold,
Bibliog. nos. 81 and 82 (1963).

Brief correspondence from Gold to the Radiochemical Centre,
Amersham, re isopropanol -1,3-Cl₄, 1960; brief correspondence
from Satchell re joint publications, July 1962; ms notes,
graphs, calculations etc.

B.241-B.243 Sghibartz, C M

Sghibartz was a PhD student of Gold's. His thesis 'Synthetic
and kinetic studies on acetals' was presented in 1978. He
co-authored four publications with Gold, Bibliog. nos. 175 (1978),
194 (1982), 201 and 204 (1983).

Research

- B.241 Correspondence re postgraduate studies 1974-77.
- B.242 'Salt effects in the hydrolysis of cyclic ethers' by
Sghibartz, 11pp photocopied ms, 28 August 1975; 'Status
report of the study of cyclic acetals (as discussed at SRC
12.7.76)' by Sghibartz and B T Grayson, 7pp typescript;
note on experiments on crown ether acetals by Sghibartz.
- B.243 Correspondence re joint publication and conference
presentation by Sghibartz 1978. Includes draft of 'Crown
ether acetals: detection of cation binding by kinetic
measurements' (Bibliog. no.175).
- B.244 Shephard, F E

Shephard worked at the Gas Council's London Research Station.

Material re study of the negative ion spectra of t-butyl
alcohol, 1970 and 1971.
- B.245 Simons, C J

Simons was a PhD student of Gold's. His thesis 'Nuclear
magnetic resonance studies of liquid mixtures' was presented
in 1966.

Brief correspondence re postgraduate studies and possible
joint publication 1963-67; 'D.S.I.R. Report by C J Simons.
Nuclear magnetic resonance studies of liquid mixtures',
c. 1965; ms notes.

Research

B.246 Socrates, G

Socrates was a part-time MSc student of Gold's working for British Oxygen. His thesis 'Studies in nuclear magnetic resonance' was presented in 1962. Socrates co-authored one publication with Gold, Bibliog. no.101 (1964).

Brief correspondence re postgraduate study 1960, 1962;
'Hydration of acetaldehyde and pyruvic acid' by Socrates,
18pp ms + refs.

B.247-B.250 Swart, E R

Swart, a Lecturer at the University College of Rhodesia and Nyasaland, was a PhD student of Gold's under the Scheme for Teachers and Research Workers at Overseas University Colleges. He worked on 'an investigation of "halide ion-organic halide" exchange reactions in the S_N1 - S_N2 borderline region'. In conjunction with Swart Gold acted as external supervisor for two Research Fellows of Swart's: P Casapieri (PhD 'Nucleophilic substitution: a study of mixed S_N1 - S_N2 mechanisms' presented 1962) and J M Hodgkinson (MPhil on reaction kinetics). The material is chiefly re the work of Swart and Casapieri.

B.247 Correspondence re research 1958-59. Includes Swart's first, second and third research reports.

B.248 Correspondence re research 1960. Includes Swart's fourth research report, and Swart and Casapieri's drafts of 'Concomitant first and second order nucleophilic substitution' sent to Gold for comment.

B.249 Correspondence re research 1962-63. Includes Swart's fifth, sixth and seventh research reports, and Swart and Casapieri's draft of 'Studies on "borderline" nucleophilic substitution Part II' sent to Gold for comment.

Research

B.250 Correspondence re research 1965-66.

B.251 Szeto (née Ho), W T A

Szeto was a PhD student of Gold's supported by a Croucher Foundation Scholarship and an Overseas Research Student Award. She worked on deuterium isotope effects in hydrogen-bonding in solution and presented her thesis in 1985. Szeto co-authored three publications with Gold, Bibliog. nos 226 (1986), 229 (1987) and 230 (1988).

Correspondence re postgraduate studies 1982-85; photocopied ms calculations annotated 'Alice Ho pre-summer 1982'; photocopied ms note by J Emsley 'NMR hydrogen bond investigations (Outline of research programme for Alice Ho)', July 1982.

B.252-B.260 Tomlinson, C

Tomlinson, a Lecturer in Physical Chemistry at the Brighton College of Technology, was a PhD student of Gold's. His thesis 'Spectroscopic studies of thermodynamic hydrogen isotope effects in solution' was presented in 1970. Tomlinson co-authored two publications with Gold, Bibliog. nos. 136 (1970) and 144 (1971).

B.252-B.256 Correspondence re research 1964-70, and joint publication 1970-71.

5 folders

B.252 1964

B.255 1969

B.253 1965-67

B.256 1970-71

B.254 1968

Research

- B.257,B.258 Computer print-outs with Gold's headings.
- B.257 'p-nitroaniline' and 'N-methyl-p-nitroaniline', August 1970.
'p-nitro dimethylaniline Different ϕ + values', October 1970.
- B.258 'Amines + ROH Preferred ϕ - values', October 1970.
'Amines + ROH Tomlinson "best" ϕ values', October 1970.
- B.259 'The hydrogen-deuterium fractionation of the hydroxyl ion in aqueous solution: the P.M.R. method' by Tomlinson, 10pp photocopied ms; untitled draft by Tomlinson beginning 'The properties of and structure within aqueous alkaline solutions have received less attention than those of the complementary acidic solutions', 12pp photocopied ms.
- B.260 'Fractionation work'. Tomlinson's notes on 'Fast exchange' and 'Slow exchange' so titled; miscellaneous ms notes, calculations and graphs by Gold and Tomlinson.
- B.261-B.263 Toullec, J
Toullec, of the Laboratoire de Chimie Organique Physique, Université de Paris, visited Gold's laboratory in 1976. Their collaborative work was published as Bibliog. no.177 (1979).
- B.261 Correspondence re joint publication 1976-77.
- B.262 Draft of Bibliog. no.177 in French, 42pp typescript.
- B.263 Draft of Bibliog. no.177 in English, 17pp typescript; proof copy with Gold's corrections.

Research

B.264-B.267 Unsworth, J B J

Unsworth was a PhD student at King's College. His thesis 'Studies on the homogeneous catalytic oxidation of olefins by palladium compounds' was presented in 1972.

B.264 Letter from Unsworth re research, February 1970, with Gold's calculation found attached; 'Improvements in the production of carbonyl compounds', specification of invention by Gold, Unsworth and J S Coe, 4pp photocopied typescript.

B.265,B.266 Unsworth's reports on 'Oxidation of octene-1 with Pd^{II} salts in solution'. 1968-70.

2 folders.

B.267 'Bis benzonitrile di chloro-palladium (II) as a catalyst for the production of ketones from olefins' by Unsworth, 4pp photocopied ms + fig.

B.268-B.271 Valavanidis, A

Valavanidis was a PhD student of Gold's. His thesis 'A study of heterogeneous base catalysis by poly-(4-vinylpyridine)' was presented in 1977.

B.268,B.269 Correspondence re postgraduate studies 1972-77.

2 folders.

B.268 1972-73

B.269 1974-77

B.270 'A study of heterogeneous base catalysis by insoluble macromolecular bases', Valavandis's research report for October 1973 - September 1974.

Research

B.271 Miscellaneous material found with the preceding.

B.272 Wassef, W N

Wassef, a Lecturer at the University College for Women, Ain Shams University, Cairo, was a postdoctoral research fellow 1981-83 supported by the Egyptian Government. He co-authored eight publications with Gold, Bibliog. nos. 206, 208 (1983), 210, 211 (1984), 220, 221, 222 and 223 (1986).

Correspondence re postdoctoral studies 1981-83.

B.273 Waterman, D C A

Waterman was a PhD student of Gold's. His thesis 'Solvent isotope effects in acid catalysed reactions' was presented in 1967. Waterman co-authored three publications with Gold, Bibliog. nos. 115 (1967), 119 and 120 (1968).

Correspondence re postgraduate studies and joint publications 1964-68; miscellaneous ms notes and graphs by Gold and Waterman.

B.274-B.276 Wood, D L

Wood was a PhD student of Gold's supported by a BP CASE studentship. His thesis 'The reduction of radicals by transition metal ions in aqueous solution' was presented in 1980. Wood co-authored four publications with Gold, Bibliog. nos. 189, 190, 191 (1981) and 192 (1982).

Research

- B.274 Correspondence re postgraduate studies 1977-81.
- B.275 Correspondence re joint publications 1981-82.
- B.276 'The reduction of organic free radicals by low valent transition metal ions as studied by isotopes. A report by D L Wood (April 1979)'; 'Survey by D L Wood Jan.1980'; sets of calculations by Gold; ms notes by Gold and Wood.
- B.277 Zaliouk (née Gitter), A
- Zaliouk was a research assistant working on an SRC supported project on slow reactions 1965-67. She co-authored one publication with Gold, Bibliog.no.141 (1971).
- Correspondence re postgraduate studies 1964-67, and joint publication 1968, 1970.
- B.278-B.307 Zdunek, L Z
- Zdunek was a PhD student of Gold's 1978-80 and a postdoctoral research assistant 1980-82 (supported by an SRC grant for 'Dynamic NMR measurements'). His thesis 'Rate measurement by NMR techniques in superacid media' was presented in 1981. Zdunek co-authored six publications with Gold, Bibliog. nos. 188 (1981), 193, 196, 197 (1982), 216 and 217 (1985).
- B.278 Correspondence re postgraduate studies 1978-80, and postdoctoral research 1980-84.
- B.279 Application to SRC for grant, correspondence arising 1980-83.
- B.280-B.284 'The determination of the acidity of super-acid media by dynamic n.m.r. measurements: The system fluorosulphuric acid-antimony pentafluoride' by Gold, Zdunek, K Laali and K P Morris (Bibliog. no.216, 1985). Drafts labelled

continued...

Research

by Dr Jean Gold to show the development of the joint paper.

- B.280 '1st draft by Victor Gold'.
- B.281,B.282 'Typed (and corrected by Zdunek on his part of the work)
June 83'.

2 folders.
- B.283 'Various stages of this paper Dec 83 - revision'.
- B.284 'Proof stage IV'. Annotated by Morris.
- B.285,B.286 'Dynamic nuclear magnetic resonance measurements of the
basicity of weak organic bases in super-acid media' by
Gold, Zdunek, Morris and Laali (Bibliog.no.217, 1985).
- B.285 Early draft with slightly different title, 13pp typescript
with ms corrections + tables + figs.
- B.286 13pp typescript with ms corrections.
- B.287-B.307 'Zdunek Research work with Victor additions' (Dr Jean Gold).
Contents of Gold's box file so labelled.
- B.287 Calculation by Gold beginning 'Assume that only two sites
of the system have significant populations, P_{HA} and P_{HB} ',
March 1978.
- B.288-B.290 Nmr spectra obtained by Zdunek, May, August and October 1978.

3 folders.
- B.291 'Brief theory of T_1 ' by Zdunek, 7pp photocopied ms + graphs,
one dated 18 April 1979 (no.13).

Research

- B.292 Material found attached to preceding. Includes 'Index to graphs in handout headed "Brief theory of T_1 "', 4 July 1979.
- B.293,B.294 'The determination of the pmr natural line width in $\text{FSO}_3/\text{SbF}_5$ systems involved in chemical exchange by variable temperature spin - lattice relaxation time (T_1) measurements' by Zdunek, photocopied ms with graphs and data, September 1979.
- 2 folders.
- B.295 Untitled note by Zdunek beginning 'The equilibria established in a solution of CO_2 in water are postulated to be the following...', 10pp photocopied ms, 16 November 1979.
- B.296 Notes of results sent to Gold by Zdunek March and June 1983; note on 'Basic relations' by Gold, 30 November 1983.
- B.297-B.299 'The three site line-shape equation by Zdunek', typescript draft possibly of part of Zdunek's thesis.
- 3 folders.
- B.300 Miscellaneous notes, graphs and calculations probably related to Bibliog. no.188 (1981).
- B.301 Untitled draft by Zdunek beginning 'At secondary school, one learns that the acidity of a medium may be defined as its ability to donate a proton to a specified reference (Brönsted) base', 29pp ms and typescript + figs possibly related to Bibliog. no.196(1982). With Gold's queries found with it.
- B.302 Untitled draft by Zdunek beginning 'The advent of the dedicated computer has seen a marked increase in the routine availability of spectral analysis', 20pp photocopied ms + tables and figs; untitled note by Zdunek beginning 'Computer programs for use in nmr have been written since the early 1960s' 3pp ms.

Research

B.303,B.304 Untitled draft by Zdunek beginning 'Protonated weak organic bases form many important intermediates in organic synthesis, but it was not until the sixties that the discovery of superacids... led to a wealth of observations of relatively long lived species', 47pp ms and typescript + figs.

2 folders.

B.305 'Rate determination using NMR line-shape analysis' by Zdunek, draft for lecture, 1lpp photocopied ms + figs for slides.

B.306 Photocopied ms data found with the preceding.

B.307 Miscellaneous notes, calculations, graphs etc., by Gold and Zdunek.

Research

Miscellaneous

- B.308,B.309 'Notes on programs'. Contents of Gold's folder so inscribed.
- B.308 Annotated computer print-outs, June 1966.
- B.309 Sets of calculations by Gold.
- B.310-B.312 'BUOH - H₂O fractionation (Brookhaven results)'. Contents of Gold's folder so inscribed: Computer print-outs, annotated by Gold.
- B.310 'Evaluation of fractionation factors and detailed composition of solutions for NMR experiments on D-fractionation between t-BUOH and water'. 19 November 1967.
- B.311 'A program to find optimum α_1 , k_D , k_H from Gold (1960) equation for rates in H₂O/D₂O' + graph, 5 January 1968.
- B.312 'Modification for calculation of $\pm 0.5\%$ and $\pm 0.3\%$ error in f_A (alcohol peak curve).' 1 February 1968.

SECTION C INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY C.1 - C.186

Gold's titular membership of the International Union of Pure and Applied Chemistry (IUPAC) dated from 1973. At its 27th Annual Conference held in Munich that year IUPAC established a Commission on Physical Organic Chemistry which was 'charged with standardization of physical organic chemical nomenclature, particularly with regard to the naming of reactions, the mechanism of reactions and the definitions used in the field' and Gold was invited to serve.

The Commission set up a number of Working Groups, each assigned a specific project, and appointed Gold coordinator of that Working Group preparing a Glossary of Terms used in Physical Organic Chemistry. A provisional version, edited by Gold, was published in August 1979 and the first edition followed in 1983. Work began on the second edition soon thereafter. From 1983 Gold was also acting as coordinator of a Joint Working Party with the Commission for Nomenclature of Organic Chemistry on Stereochemical Terminology.

Gold became a member of the Interdivisional Committee on Nomenclature and Symbols (IDCNS) in 1979 as a representative of the Organic Chemistry Division. The Committee reviewed draft IUPAC reports to check that their terminology was in line with IUPAC conventions. In 1982 IDCNS agreed to begin work towards a general IUPAC compendium of terminology. Gold was in charge of this project, and by 1984 had completed the first stage in the preparation of a complete list of IUPAC glossaries and reports on terminology.

Gold was elected Chairman of the Commission on Physical Organic Chemistry for 1983-87 and in September 1985, very shortly before his death, was elected to the IUPAC Bureau, the senior executive body of the Union.

International Union of Pure and Applied Chemistry

The material is presented as follows:

- C. 1 - C.137 Commission on Physical Organic Chemistry
- C.138 - C.167 Interdivisional Committee on Nomenclature and Symbols (IDCNS)
- C.168 - C.186 IUPAC General Assemblies

COMMISSION ON PHYSICAL ORGANIC CHEMISTRY

- C. 1 - C. 29 General correspondence and papers
- C. 30 - C.101 Working Group to compile a Glossary of terms used in Physical Organic Chemistry
- C.102 - C.106 Joint Working Party on Stereochemical Terminology
- C.107 - C.137 Other Working Groups

International Union of Pure and Applied Chemistry

General correspondence and papers

The material is chiefly papers for meetings of the Commission held during IUPAC Physical Organic Chemistry conferences and Gold's correspondence with Commission members and others, 1972-85.

The 1972 material is re the ad hoc committee on Physical Organic Chemistry formed to press for the creation of the Commission.

29 folders.

C. 1	1972	C.16	1980 Aug
C. 2	1973	C.17	1980 Sept-Dec
C. 3	1974 Jan-June	C.18	1981 Jan-July
C. 4	1974 July-Nov	C.19	1981 Aug-Sept
C. 5	1975	C.20	1982 Jan-June
C. 6	1976 Jan-July	C.21	1982 Aug-Nov
C. 7	1976 Aug-Dec	C.22	1983 Feb-June
C. 8	1977 Apr-Aug	C.23	1983 July-Aug
C. 9	1977 Sept	C.24	1983 Sept-Nov
C.10	1977 Oct-Dec	C.25	1983 Dec (1)
C.11	1978 Jan-Apr	C.26	1983 Dec (2)
C.12	1978 May-Sept	C.27	1984 Jan-Sept
C.13	1978 Oct-Nov	C.28	1984 Oct
C.14	1979	C.29	1985
C.15	1980 March-July		

International Union of Pure and Applied Chemistry

Working Group to compile a Glossary of terms used in Physical Organic Chemistry

In late 1975 and in 1976 the Commission on Physical Organic Chemistry circulated letters to physical organic chemists seeking opinions on the naming of organic reactions and the symbolisation of reaction mechanisms. From the replies it became apparent that it was first necessary to standardise the nomenclature. A Working Group was established, chaired by Gold, to compile a Glossary.

After extensive consultation and redrafting a provisional Glossary was published in Pure and Appl. Chem. 51 (1979). The response was generally favourable and after considerable revision the first edition was published in 1983 in Pure and Appl. Chem. 55.

C.30 - C.34 Initial requests to physical organic chemists for their views on Commission proposals, with copies of the replies 1975-76.

5 folders.

C.30	1975	C.33	1976	Mar-May
C.31	1976 Jan	C.34	1976	Jun-July
C.32	1976 Feb			

C.35 Replies to Questionnaire on types of nomenclature, November-December 1976.

International Union of Pure and Applied Chemistry

C.36 - C.41 Initial suggestions for definitions of terms, December 1976 - April 1977.

Having agreed to act as Chairman of the Working Group Gold prepared a list of terms to be defined. This was sent out to selected colleagues in December 1976 with a request that they each provide possible definitions of certain terms which could then form the basis of the first draft of the glossary.

6 folders.

C.36	1976	C.39	1977 Feb (2)
C.37	1977 Jan	C.40	1977 Mar
C.38	1977 Feb (1)	C.41	1977 Apr

C.42, C.43 Gold's first draft definitions.

2 folders.

C.44 'First draft of glossary of terms (April 1977)', with related correspondence.

C.45 - C.48 Comments on first draft, May - August 1977.

4 folders.

C.45	1977 May-June	C.47	1977 July
C.46	1977 June	C.48	1977 July-Aug

C.49, C.50 Gold's extensively annotated working copy of second draft, July 1977.

2 folders.

International Union of Pure and Applied Chemistry

C.51 - C.57 Further requests for definitions of terms, August 1977 -
January 1978.

On the basis of comments received on the first draft
(C.45 - C.48) Gold asked selected colleagues to comment
on new definitions of certain more difficult terms and
to provide suggested definitions for terms omitted in the
first draft.

7 folders.

C.51 1977 Aug

C.55 1977 Nov (2)

C.52 1977 Sept

C.56 1977 Dec

C.53 1977 Oct

C.57 1978

C.54 1977 Nov (1)

C.58, C.59 'New contributions for second draft (Mark II)'. Contents
of Gold's folder so inscribed, divided into two: ms and
typescript definitions.

2 folders.

C.60 Miscellaneous correspondence, October 1977 - May 1978.

C.61 'Glossary of terms used in Physical Organic Chemistry
(Third Draft, March 1978) '.

C.62 Distribution list for third draft, notes on costs incurred.

International Union of Pure and Applied Chemistry

C.63 - C.71 Comments on third draft, June - October 1978.

The third draft was circulated in June 1978. It received many comments and suggestions and the material includes some extended exchanges of correspondence on the meaning of specific terms. Gold continued to receive comments after a hand-revised 'fourth' draft had been submitted to the Interdivisional Committee on Nomenclature and Symbols (IDCNS) in September to be approved for provisional publication.

9 folders.

C.63	June	C.68	Sept-Oct
C.64	July	C.69	Undated A-K
C.65	Aug (1)	C.70	Undated L-P
C.66	Aug (2)	C.71	Undated S, Y
C.67	Sept		

C.72, C.73 Correspondence and comments on 'fourth' draft, September 1978 - February 1979.

2 folders.

C.74 - C.78 Correspondence September 1978 - September 1979 with K J Laidler, chairman of the IUPAC Subcommittee on Nomenclature and Symbolism in Chemical Kinetics, and others chiefly re the meaning of the term 'chemical flux'.

Material also includes drafts of the Subcommittee's report 'Symbolism and terminology in Chemical Kinetics', on which Gold commented.

5 folders.

International Union of Pure and Applied Chemistry

- C.79 Correspondence with IUPAC officers and colleagues re arrangements for provisional publication, November 1978 - October 1979.
- Following approval from IDCNS in November 1978 the Glossary was published in the August 1979 issue of Pure and Applied Chemistry 51, 1725-1801.
- C.80 Gold's annotated 'Suggested points for consideration by the Commission [on Physical Organic Chemistry] in connection with the Glossary', July and August 1979. These were considered at the Commission meeting at Davos, September 1979.
- C.81 Copy of 'Provisional Glossary of Terms used in Physical Organic Chemistry'.
- C.82 - C.88 Comments on Provisional Glossary and correspondence re Gold's revision thereof, July 1979 - November 1980.
- 7 folders.
- | | | | |
|------|----------------|------|--------------|
| C.82 | 1979 July, Aug | C.86 | 1980 June |
| C.83 | 1979 Sept | C.87 | 1980 July |
| C.84 | 1979 Oct-Dec | C.88 | 1980 Aug-Nov |
| C.85 | 1980 Jan-May | | |
- C.89 Ms and typescript draft definitions for revision of Provisional Glossary.

International Union of Pure and Applied Chemistry

- C. 90 - C. 94 Correspondence and comments on 'Final definitions', April - July 1981.

5 folders.

C.90	Apr	C.93	July (1)
C.91	May	C.94	July (2)
C.92	June		

- C. 95 - C. 98 Correspondence re publication of the Glossary, July 1981 - August 1983.

The final draft was approved by the Commission on Physical Organic Chemistry in July 1981 and submitted to IDCNS in November. After consideration of further comments approval for official publication was given in September 1982.

4 folders.

C.95	1981	C.97	1982 June-Nov
C.96	1982 Jan-May	C.98	1983

- C. 99 - C.101 Comments on the Glossary and material for future revision thereof, 1983-85.

3 folders.

C. 99	1983 (1)	C.101	1984-85
C.100	1983 (2)		

International Union of Pure and Applied Chemistry

Joint Working Party on Stereochemical Terminology

Gold was coordinator of this Joint Working Party with the Commission for Nomenclature of Organic Chemistry.

C.102-C.104 Correspondence re meetings of Working Party and definitions of stereochemical terms, 1982-85.

3 folders.

C.102	1982, 1983	C.104	1985
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C.103	1984
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C.105 'Stereochemistry', 43pp typescript.

C.106 Ms notes and background information, including bibliographical references.

Other Working Groups

In addition to the Working Group established under Gold to compile the Glossary of terms the Commission on Physical Organic Chemistry set up a number of other Working Groups to consider questions of terminology relating to specific processes in chemistry. The material is chiefly draft reports and correspondence sent to Gold as Commission member and coordinator of the work on the Glossary.

C.107 Lists of Working Groups, their chairmen and expected dates for project completions, 1982 and 1983.

International Union of Pure and Applied Chemistry

- C.108-C.113 Nomenclature for straightforward transformations:
substitutions, additions and eliminations,
Coordinator J F Bunnett, 1976-83.
- 6 folders.
- C.114, C.115 Nomenclature for multivalent transformations, Coordinator
R A Y Jones, 1979-81.
- 2 folders.
- C.116-C.125 Symbolisation of reaction mechanisms in organic
chemistry, Coordinator J F Bunnett, 1974-85.
- 10 folders.
- C.126 Nomenclature for straightforward transformations:
attachment/detachment, oxidation/reduction, Coordinator
M P Doyle, 1978-83.
- C.127, C.128 Nomenclature for ring-forming and ring-opening trans-
formations, Coordinator P Müller, 1981, 1984.
- 2 folders.
- C.129, C.130 Nomenclature for complex reactions, Coordinator J March,
1977-84.
- 2 folders.
- C.131 Nomenclature of insertion and extrusion transformations,
Coordinator J Toullec, 1982-84.

International Union of Pure and Applied Chemistry

- C.132 Nomenclature for rearrangement transformations, Coordinator
R A Y Jones, 1982-84.
- C.133 Nomenclature for coupling/uncoupling transformations,
Coordinator M P Doyle, 1982.
- C.134 'Bi-reactions' and related transformations, Coordinator
M P Doyle, 1980, 1981.
- C.135 Nomenclature of pericyclic reactions, Coordinator K N Houk,
1978, 1979.
- C.136, C.137 Mechanisms of straightforward transformations, Coordinator
J F Bunnett, 1982, 1983.

2 folders.

International Union of Pure and Applied Chemistry

INTERDIVISIONAL COMMITTEE ON NOMENCLATURE AND SYMBOLS (IDCNS)

The material relates to arrangements for IDCNS meetings, draft reports submitted to IDCNS for approval prior to publication and to Gold's work towards the compilation of a compendium of terminology.

30 folders.

C.138	1979 Mar-July	C.153	1982 Sept
C.139	1979 Aug-Dec	C.154	1982 Sept-Dec
C.140	1980 Jan-May	C.155	1983 Jan-Aug
C.141	1980 June (1)	C.156	1983 Sept, Oct
C.142	1980 June (2)	C.157	1983 Oct (1)
C.143	1980 July, Aug	C.158	1983 Oct (2)
C.144	1980 Sept	C.159	1983 Nov, Dec
C.145	1980 Oct-Dec	C.160	1984 Jan-Mar
C.146	1981 Jan-Apr	C.161	1984 Apr-July
C.147	1981 May-July	C.162	1984 Aug-Dec
C.148	1981 July	C.163	1985 Jan-June
C.149	1981 Aug-Nov	C.164	1985 July
C.150	1982 Jan, Feb	C.165	1985 Aug-Sept
C.151	1982 Mar	C.166	Nd
C.152	1982 Apr-Aug	C.167	Nd

International Union of Pure and Applied Chemistry

IUPAC GENERAL ASSEMBLIES

Gold attended IUPAC Council meetings held during General Assemblies as a delegate of the Royal Society's British National Committee for Chemistry (D.7-D.42) and as a titular member of IUPAC.

- C.168-C.175 30th General Assembly, Davos, 2-10 September 1979.
- Gold led the Royal Society delegation.
- C.168 List of participants; IUPAC Current Programmes for May 1979.
- C.169 Correspondence re expenses of Royal Society delegates.
- C.170-C.174 Agenda and items for discussion at IUPAC Council meeting at Davos.
- 5 folders.
- C.175 Reports to the Royal Society on IUPAC Council meeting and on General Assembly.
- C.176 31st General Assembly, Leuven, September 1981.
- Report of the Royal Society delegation on the Council meeting.
- C.177,C.178 32nd General Assembly, Lyngby, 18-26 August 1983.
- See also D.22.

International Union of Pure and Applied Chemistry

- C.177 Correspondence, April-August 1983, chiefly re IUPAC Affiliate Membership Scheme and proposed changes to dues structure (see D.40-D.42).
- C.178 Programme.
- C.179-C.186 33rd General Assembly, Lyon, 30 August-7 September 1985.
Gold was elected to the IUPAC Bureau at this meeting.
- C.179 Correspondence re arrangements.
- C.180 Programme.
- C.181 Membership list of Divisions/Commissions for approval.
- C.182 'Report on the critical assessment of the programs and projects of the International Union of Pure and Applied Chemistry' by C N R Rao.
- C.183-C.186 Agenda and items for discussion at IUPAC Council meeting at Lyon.
4 folders.

SECTION D

ROYAL SOCIETY

D.1 - D.78

Gold was elected to the Fellowship of the Royal Society in 1972 (G.6). He served on a number of committees. Those best documented are the British National Committee for Chemistry 1976-85 (chairman 1982-84) and the Education Committee 1976-78 (as chairman of the Chemical Education Committee). Much of the material relates, directly or indirectly, to his interest in chemical nomenclature and his work for IUPAC in this area.

The material is presented as follows:

D. 1 - D. 6	General correspondence and papers
D. 7 - D.42	British National Committee for Chemistry
D.43 - D.64	Education Committee
D.65 - D.72	Other Committees
D.73 - D.78	Elections, research appointments and awards

Royal Society

GENERAL CORRESPONDENCE AND PAPERS

- D.1 1972-76.
- D.2 1977-79.
- D.3 1980-82. Includes 1982 questionnaire on effects of
cuts in university funding completed by Gold.
- D.4 1983-84. Principally material re UK-USA technology
transfer.
- D.5 1984. Material re proposed repeal or amendment of
Statute 12, which provided for the election of those
who 'either have rendered conspicuous service to the
cause of science or are such that their election would
be of signal benefit to the Society'.
- D.6 1984, 1985.

Royal Society

BRITISH NATIONAL COMMITTEE FOR CHEMISTRY (BNCC)

- D. 7 - D.31 General correspondence and papers
D.32 - D.39 Joint Panel on Chemical Nomenclature
D.40, D.41 Ad hoc Group on IUPAC Dues
D.42 IUPAC Affiliate Membership Scheme

General correspondence and papers

D.7 Invitation to serve, 20 January 1976.

D.8 - D.31 Papers for BNCC meetings, related correspondence,
correspondence sent to Gold as chairman, 1983-85.

24 folders.

D. 8	1982 Nov; 1983 Jan	D.20	1984 Jan
D. 9	1983 Feb, Mar	D.21	1984 Feb
D.10	1983 Apr, May	D.22	1984 Mar
D.11	1983 May	D.23	1984 Apr, May
D.12	1983 June, July	D.24	1984 June, July
D.13	1983 Aug	D.25	1984 Aug-Oct
D.14	1983 Sept	D.26	1984 Nov (1)
D.15	1983 Oct	D.27	1984 Nov (2)
D.16	1983 Nov (1)	D.28	1984 Dec
D.17	1983 Nov (2)	D.29	1985 Jan-Apr
D.18	1983 Dec (1)	D.30	1985 May
D.19	1983 Dec (2)	D.31	1985 June

Royal Society

Joint Panel on Chemical Nomenclature

This Joint Royal Society/Chemical Society Panel was established as a subcommittee of the British National Committee for Chemistry in 1979 following the recommendations of an ad hoc Group chaired by Gold. One of its principal tasks was to consider the application of IUPAC nomenclature recommendations in the UK. Gold was not a member of the Panel, chaired by D H Whiffen, but was kept informed of its progress as a member of the BNCC and of IUPAC's Commission on Physical Organic Chemistry.

- D.32 Correspondence re establishment of UK national body for chemical nomenclature January - April 1978 and first meeting of ad hoc group on proposed Panel 16 October 1978.
- D.33 Correspondence re membership of Panel, January-April 1979.
- D.34-D.39 Papers and correspondence re meetings of Panel, 1979, 1982, 1984.
- 6 folders.
- | | | | | | |
|------|------|----------|------|------|---------|
| D.34 | 1979 | May | D.37 | 1982 | June |
| D.35 | 1979 | Oct-Dec | D.38 | 1982 | Oct,Nov |
| D.36 | 1982 | Jan, Feb | D.39 | 1984 | July |

Ad hoc Group on IUPAC Dues

Gold chaired this Group established in June 1980 to formulate a proposed revision of the IUPAC Dues structure. This was considered by the IUPAC Finance Committee during the 31st IUPAC General Assembly, Leuven, 1981 (see C.177), and accepted in principle.

2 folders.

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|------|------|------|------------|
| D.40 | 1980 | D.41 | 1981, 1982 |
|------|------|------|------------|

Royal Society

IUPAC Affiliate Membership Scheme

This scheme was proposed at the 31st IUPAC Council meeting 1981 (See C.177) as a way to encourage individual chemists in participating countries to play a more active part in IUPAC activities.

D.42 Correspondence and papers re possible UK participation, 1982.

Royal Society

EDUCATION COMMITTEE

- D.43 - D.54 Chemical Education Committee
- D.55 - D.64 Ad hoc Group on Education in Schools

Chemical Education Committee

Gold was a member and chairman of this Royal Society/Chemical Society joint committee 1976-78. During this period the committee was asked by the BNCC to consider the issue of chemical nomenclature in schools. Concern had been expressed following publicity in 1976 for the Association for Science Education (ASE) 1972 report 'Chemical nomenclature, symbols and terminology' which argued for systematic nomenclature to be adopted in chemistry teaching in schools. It was feared that replacing well-established 'trivial' terms by unfamiliar ones would have a deleterious effect.

The material is correspondence and papers relating to this issue 1976-78.

- D.43 Invitation to serve, 30 December 1975; draft of Gold's letter to Chemistry in Britain on 'Nomenclature, chemistry and education' arguing that 'systematic names were not intended for use in schools', May 1976; BNCC 'Summary... of previous action within the Royal Society Education Committee and the British Committee on Chemical Education on chemical nomenclature', November 1976.
- D.44-D.54 Correspondence and papers re consideration of ASE proposals 1977-78.
- D.44 1977 May-August. Includes draft questionnaire on chemical nomenclature in schools and correspondence re Gold's meeting with ASE Nomenclature Working Party.

Royal Society

- D.45 1977 September-December. Chiefly re interim report
on results of questionnaire and related material.
- D.46 1978 January. 'Systematic chemical nomenclature in
schools: a study of the impact of the A.S.E. recommendations'
by M D Robinson. With related material.
- D.47 1978 February-May. Includes correspondence re draft
revision of the 1972 ASE Report.
- D.48-D.50 1978 June. Second draft.

3 folders.
- D.51-D.53 1978 June-August. Comments on second draft.

3 folders.
- D.54 1978 September-November.

Ad hoc Group on Education in Schools

In January 1977 the Education Committee asked Sir Nevill Mott to form an ad hoc group to consider the science education issues raised by a Department of Education and Science document 'Schools in England and Wales: current issues: An annotated agenda for discussion'. Gold was a member of this group.

Royal Society

D.55-D.59 Papers for Group meetings 1977.

5 folders

D.55 1977 Jan (1)

D.58 1977 Feb (2)

D.56 1977 Jan (2)

D.59 1977 May

D.57 1977 Feb (1)

D.60-D.64 Miscellaneous Education Committee papers on science
teaching in schools 1977-78.

5 folders.

Royal Society

OTHER COMMITTEES

D.65 Audit Committee.

Invitation to serve 7 October 1981 (accepted).

D.66-D.69 British National Committee for ICSU (International Council
of Scientific Unions).

Gold was a member of this committee as chairman of BNCC.

Papers for meetings, various dates 1978-84.

4 folders.

D.70 British Standards Institution Technical Committee.

Gold served as Royal Society representative on the Technical
Committee LBC/16 (pH scale) 1974-84.

Correspondence and papers, various dates 1974-85.

D.71 Sectional Committee 3.

Gold served on this Committee 1976-79.

Correspondence and papers.

D.72 Soirée Committee.

Invitation to serve 21 October 1975 (accepted).

Royal Society

ELECTIONS, RESEARCH APPOINTMENTS AND AWARDS

6 folders.

D.73 1973-78

D.74 1978

D.75 1978-80

D.76 1979

D.77 1980-83

D.78 1984-85

SECTION E. ADVANCES IN PHYSICAL ORGANIC CHEMISTRY E.1 - E.31

Gold founded the journal Advances in Physical Organic Chemistry to publish review articles covering the application of quantitative and mathematical methods to organic chemistry. He served as editor for the first ten volumes 1963-73, and thereafter as co-editor with D Bethell.

The material covers the first nine volumes. It consists of sequences of editorial correspondence with prospective and contributing authors and with the publishers, Academic Press. It is arranged according to volume and for each Dr Jean Gold has provided a list of contributors.

E. 1 - E. 4	Volume 1.
	4 folders.
E. 5 - E. 7	Volume 2.
	3 folders.
E. 8 - E.10	Volume 3.
	3 folders.
E.11 - E.15	Volume 4.
	5 folders.
E.16 - E.18	Volume 5.
	3 folders.
E.19 - E.21	Volume 6.
	3 folders.

Advances in Physical Organic Chemistry

E.22 - E.24 Volume 7.
3 folders.

E.25 - E.27 Volume 8.
3 folders.

E.28 - E.31 Volume 9.
4 folders.

SECTION F

CORRESPONDENCE

F.1 - F.148

F. 1 - F. 62

GENERAL SCIENTIFIC CORRESPONDENCE.

In alphabetical order, dated and indexed,
with an indication of any information of
particular biographical, scientific or
historical interest.

F.63 - F. 97

SHORTER SCIENTIFIC CORRESPONDENCE.

In chronological order.

F.98 - F.148

REFERENCES AND RECOMMENDATIONS.

Correspondence

GENERAL SCIENTIFIC CORRESPONDENCE

F.1	Albery, W J	1975, 1976, 1980, nd
F.2	Arnett, E M	1977
	HSO ₃ F - SbF ₅ systems	
F.3	Baba, A B bin	1982-85
F.4 - F.6	Bafna, S L	various dates 1953-78
F.4	1953, 1969. Includes drafts by Bafna (and others) 'On γ -substitution in the resorcinol nucleus' 1953 and 'Studies with ion-exchange resins on cinchona alkaloids III. Exchange rates' 1969, sent to Gold for comment.	
F.5	1974. Includes draft by Bafna (and others) 'Ultraviolet absorption spectra: some substituted benzoic acids', sent to Gold for comment.	
F.6	1975-78. Chiefly 1975 correspondence <u>re</u> International Conference on the Theory and Practice of Ion Exchange. Includes draft of Bafna's paper 'Molecular sorption on ion exchange resins' for the conference.	
F.7	Bell, R P	1961, 1972-75, nd
	1961 exchange is <u>re</u> detection of general acid catalysis.	
F.8	Bethell, D	1959, 1962, nd
F.9	Bigeleisen, J	1974-75, 1984

Correspondence

- | | | |
|------------|--|------------------------|
| F.10 | Butler, A R | 1964-67, 1971-74, 1981 |
| | 1971 correspondence <u>re</u> the rearrangement of 4-nitroanisole during nitration. | |
| F.11, F.12 | Cacae, F | various dates 1970-81 |
| F.11 | 1970, 1977. 1977 correspondence <u>re</u> arrangements for University of London intercollegiate lecture delivered by Cacae 6 March 1978. | |
| F.12 | 1978, 1981. 1978 correspondence <u>re</u> Cacae's lecture. | |
| F.13 | Calmon, J-P and M | 1971, 1974 |
| | Includes introduction to draft of 'Etude cinetique du mecanisme d'hydrolyse de β -dicetones ethyleniques' by J-P Calmon. | |
| F.14 | Covington, A K | 1971, 1981, 1984 |
| F.15 | Crampton, M R | various dates 1971-84 |
| | 1974-75 correspondence <u>re</u> complex formation and substitution. | |
| F.16 | Cristol, S J | 1981 |
| | Arrangements for Special University Lecture delivered by Cristol 29 October. | |
| F.17 | Davies, D S | 1976, 1978 |
| | 1978 correspondence <u>re</u> discussion at National Physical Laboratory 'on the role of chemistry in the Department of Industry'. | |

Correspondence

- F.18 Glasoe, P K 1970-71
Slow exchange between hydroxylic compounds.
- F.19 Gould, S J 1971-76
Chiefly re work on platinum-catalysed exchange mechanisms.
- F.20 Hider, R C 1971-73, 1981
- F.21 Isotopes in Organic Chemistry 1973-79
Gold was on the Editorial Advisory Board.
- F.22 Kresge, A J 1964, 1975-79
1964 correspondence re NMR experiments.
- F.23 Laali, K 1979-82
Correspondence 1979-80, chiefly re T₁ measurements, refers to work started by Laali and continued by L Z Zdunek (B.278-B.307).
- F.24 Levy, J B 1969-71
Visit to King's College.
- F.25 Liddiard, C J 1976-77, 1983
- F.26 Long, F A various dates 1963-80
- F.27 Meinwald, J 1975, 1981-82

Correspondence

- | | | |
|-----------|---|----------------|
| F.28 | Miri, A Y | 1976-81 |
| | Chiefly <u>re</u> joint work on nitrocompounds/borohydride systems (B.191). | |
| F.29 | Norman, R O C | 1972,1979,1983 |
| | 1972 correspondence <u>re</u> samples. | |
| F.30-F.38 | Olah, G A | 1970-85 |
| | Olah was Visiting Professor of Chemistry at King's College 1973-78. The correspondence is chiefly <u>re</u> arrangements for Olah's visits to King's College to deliver lectures. | |
| F.30 | 1970-71. | |
| F.31 | 1972. <u>Re</u> arrangements for University of London Special University Lectures, delivered by Olah 25 October and 1 November 1972. | |
| F.32 | 1973. | |
| F.33 | 1974 Jan-Mar. Includes ms notes by Gold annotated 'Olah'. | |
| F.34 | 1974 Apr-June. | |
| F.35 | 1974 July-Dec, 1975. | |
| F.36 | 1976. | |
| F.37 | 1977-79. | |
| F.38 | 1980-85. | |

Correspondence

F.39 - F.46 Perkampus, H-H 1973-79

Correspondence principally re academic exchange schemes between the King's College Chemistry Department and the Universität Düsseldorf Institut für Physikalische Chemie (Director H-H Perkampus). Also includes a little correspondence 1974 re research (Raman spectra of the methanol system).

The exchange schemes operated under the auspices of the British Council and the Deutschen Akademischen Austauschdienst. Gold visited Germany in May 1974, Perkampus visited London February-March 1976 and a colleague, T Bluhm, visited King's College in October 1977.

8 folders.

F.39	1973, 1974 Jan-Mar	F.43	1976 Jan-Mar
F.40	1974 Apr-June	F.44	1976 Apr-Nov
F.41	1974 July-Dec	F.45	1977
F.42	1975	F.46	1978-79

F.47 Pross, A various dates 1972-83

F.48 Riley, T 1960, 1967-69

F.49 Rolston, J H 1969-71, 1974-76

1970-71 correspondence principally re catalyst for heterogeneously catalysed exchange reactions.

F.50 Style, D W G various dates 1971-82

Style died in November 1979. The later correspondence is with his family and re Style Prizes established by the Association of King's College Chemists.

Correspondence

- | | | |
|------------|--|------------------|
| F.51 | Symons, M C R | 1973-74, 1982-83 |
| F.52 | <u>The Times</u> | 1981 |
| | Letter to the Editor <u>re</u> educational policies of Conservative and Labour parties. | |
| F.53 | Toullec, J | 1976-78, 1981 |
| | 1976 and 1981 correspondence <u>re</u> visits to England. | |
| F.54 | Valavanidis, A | 1977-80 |
| F.55 | Wassef, W N | 1984-85 |
| | Plans for proposed visit to Cairo, December 1985. | |
| F.56 | Wigfield, D C | 1977, 1979 |
| | 1977 correspondence <u>re</u> borohydride reactions, 1979 correspondence <u>re</u> draft by Wigfield and R T Pon 'Isotope exchange in borohydride reductions'. | |
| F.57, F.58 | Wilcox, C F | 1979-83 |
| F.57 | 1979-81. Visit of Wilcox to King's College as Senior Visiting Fellow September 1980 - February 1981. Includes ms note by Gold recording Wilcox's contribution to solving two problems. | |
| F.58 | 1982-83. Chiefly <u>re</u> Jorgensen's methoxide-methanol Monte Carlo calculations. | |

Correspondence

F.59	Wolfsberg, M	various dates 1973-82
F.60	Wood, D L	1974, 1982
	Chiefly <u>re</u> paper by T J Meyer on large solvent isotope effects.	
F.61	Zollinger, H	1974, 1980-81
	1981 exchange <u>re</u> data on NMR spectra of hydride addition products.	

Correspondence

SHORTER SCIENTIFIC CORRESPONDENCE

F.62	1954,1960,1964-65	F.80	1977 May-Dec
F.63	1966-67	F.81	1978 Jan-May
F.64	1968-69	F.82	1978 June-Dec
F.65	1970-71	F.83	1979 Jan-July
F.66	1971	F.84	1979 Aug-Nov
F.67	1972 Jan-June	F.85	1980 Jan-Apr
F.68	1972 July-Nov	F.86	1980 May-July
F.69	1973 Jan-June	F.87	1980 Aug-Nov
F.70	1973 July-Dec	F.88	1981 Jan-Apr
F.71	1974 Jan-June	F.89	1981 May-Dec
F.72	1974 July-Dec	F.90	1981 July
F.73	1975 Jan	F.91	1982 Jan-Mar
F.74	1975 Jan-Sept	F.92	1982 Apr-July
F.75	1975 Oct-Dec	F.93	1982 Aug-Dec
F.76	1976 Jan-Apr	F.94	1983 Jan-July
F.77	1976 May-Sept	F.95	1983 Aug-Nov
F.78	1976 Oct-Dec	F.96	1984
F.79	1977 Jan-Apr	F.97	1985, nd

Correspondence

REFERENCES AND RECOMMENDATIONS

F. 98 - F.102	Examining
F.103 - F.129	Appointments
F.130 - F.143	Grant applications
F.144 - F.146	Honours and awards
F.147, F.148	Miscellaneous

Examining

Brighton College of Technology

F.98 Assessor of degree course in Chemistry, 1967.

Higher Degrees

F. 99	1965, 1968	F.101	1974
F.100	1970, 1973	F.102	1975-80

Correspondence

Appointments

F.103	1953-56, 1959	F.117	1979 (1)
F.104	1960-63	F.118	1979 (2)
F.105	1964-65	F.119	1979 (3)
F.106	1966-67	F.120	1980 (1)
F.107	1968-70	F.121	1980 (2)
F.108	1971	F.122	1981
F.109	1972	F.123	1982 (1)
F.110	1973	F.124	1982 (2)
F.111	1974	F.125	1983
F.112	1975	F.126	1984 (1)
F.113	1976	F.127	1984 (2)
F.114	1977 (1)	F.128	1985 (1)
F.115	1977 (2)	F.129	1985 (2)
F.116	1978		

Grant applications

General

F.130	1970-80	F.132	1983-84
F.131	1982		

Correspondence

Science Research Council

F.133	1979	F.139	1982 (5)
F.134	1981	F.140	1983
F.135	1982 (1)	F.141	1984 (1)
F.136	1982 (2)	F.142	1984 (2)
F.137	1982 (3)	F.143	1984 (3), 1985
F.138	1982 (4)		

Honours and Awards

F.144	1967-75	F.146	1983-85
F.145	1978-81		

Miscellaneous

F.147	1973-81	F.148	1983-84
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SECTION G

BIOGRAPHICAL

G.1 - G.12

- G.1 The Times obituary of Gold, 8 October 1985.
- G.2 Entry for Who's Who in the World 1979.
- G.3 - G.5 Bibliographical and biographical information, paginated
 1-36 by Dr Jean Gold.
- G.3 (pp.1-20) Bibliography, arranged chronologically. This
 bibliography is reproduced as pages 107-127 of this catalogue.
- G.4 (pp.21-29) Lists of shorter notes and Letters by Gold
 including Letters to The Times; list of reviews of
 'Text books by Victor Gold'.
- G.5 (pp.30-36) Curriculum vitae; 'Doctoral theses
 supervised by Victor Gold, PhD (unless stated)'.

 List of 'Research papers filed' (Dr Jean Gold).
- G.6 Correspondence and papers re Gold's election to Fellow-
 ship of the Royal Society March 1972.
- G.7 - G.10 Replies to letters of congratulation sent by Gold to
 colleagues. Most of the letters relate to elections
 to the Fellowship of the Royal Society.
- G.7 1971-75 G. 9 1980-81
 G.8 1976-79 G.10 1982-84, nd
- G.11 Gold's own accounts of his scientific work ca 1970 and
 ca 1983. Made available by Dr Jean Gold September 1990.
- G.12 Lists of bibliographical material supplementary to G.3
 and G.4. Made available by Dr J Gold September 1990.

LIST OF PUBLICATIONS

1947

1. V. Gold, *Nature*, 160, 306 (1947). Electrode Processes.

1948

2. V. Gold, *Trans. Faraday Soc.*, 44, 506 (1948). The Hydrolysis of Acetic Anhydride.
3. E. G. Baxter and V. Gold, *Nature*, 161, 403 (1948). A Simple Moving-Boundary Apparatus.

1949

4. V. Gold, *Trans. Faraday Soc.*, 45, 191 (1949). Bond Orders and Other Criteria of Double-Bond Character.

1950

5. V. Gold, *Trans. Faraday Soc.*, 46, 109 (1950). Some Molecular-Orbital Calculations on the Systems σ - and p -C₆H₄X₂.
6. A. R. Emery and V. Gold, *J. Chem. Soc.*, 1443 (1950). Quantitative Studies of the Reactivities of Mixed Carboxylic Anhydrides. Part 1. The Composition of the Acylation Products in the Reaction Between Acetic Chloroacetic Anhydride and Primary Aromatic Amines.
7. A. R. Emery and V. Gold, *J. Chem. Soc.*, 1447 (1950). Quantitative Studies of the Reactivities of Mixed Carboxylic Anhydrides.

Part 2. The Determination of Some Reaction Velocities Involving Acetic Chloroacetic Anhydride.

8. A. R. Emery and V. Gold, *J. Chem. Soc.*, 1455 (1950). Quantitative Studies of the Reactivities of Mixed Carboxylic Anhydrides. Part 3. The Hydrolysis and Some Acylation Reactions of a Series of Acetic Chloroaliphatic Acid Anhydrides.
9. V. Gold, E. D. Hughes, C. K. Ingold, and G. H. Williams, *J. Chem. Soc.*, 2452 (1950). Kinetics and Mechanism of Aromatic Nitration. Part 4. Nitration by Dinitrogen Pentoxide in Aprotic Solvents.
10. V. Gold, E. D. Hughes, and C. K. Ingold, *J. Chem. Soc.*, 2467 (1950). Kinetics and Mechanism of Aromatic Nitration. Part 5. Nitration by Acyl Nitrates Particularly by Benzoyl Nitrate.
11. V. Gold, and F. L. Tye, *J. Chem. Soc.*, 2932 (1950). The State of Sulphur Dioxide Dissolved in Sulphuric Acid.

1951

12. V. Gold and M. Whittaker, *J. Chem. Soc.*, 1184 (1951). The Kinetics of the Reduction of Aromatic Iodo-Compounds by Hydriodic Acid in Solution.
13. V. Gold, *J. Chem. Soc.*, 1430 (1951). Orbital Hybridisation and Some Other Considerations Concerning the Transition State of Bimolecular Organic Substitution Reactions.
14. V. Gold and B. W. V. Hawes, *J. Chem. Soc.*, 2102 (1951). The Ionisation of Triarylc-

List of publications

binols in Strong Acids and the Definition
of a New Acidity Function.

1952

15. V. Gold, B. W. V. Hawes, and F. L. Tye, *J. Chem. Soc.*, 2167 (1952). The Basicity of Hydrocarbons. Part I. Cryoscopy of Conjugated Hydrocarbon and Carbinol Solutes in Sulphuric Acid.
16. V. Gold and F. L. Tye, *J. Chem. Soc.*, 2172 (1952). The Basicity of Hydrocarbons. Part 2. Ultra-Violet Absorption Spectra of Conjugated Hydrocarbons in Sulphuric Acid Solution.
17. V. Gold and F. L. Tye, *J. Chem. Soc.*, 2181 (1952). The Basicity of Hydrocarbons. Part 3. The Distribution of Some Conjugated Hydrocarbons Between Acidic and Inert Solvents.
18. V. Gold and F. L. Tye, *J. Chem. Soc.*, 2184 (1952). The Basicity of Hydrocarbons. Part 4. A Theoretical Treatment of Conjugated Hydrocarbons.

1953

19. S. L. Bafna and V. Gold, *J. Chem. Soc.*, 1406 (1953). The Hydrolysis of Acetic Anhydride. Part 2. Catalysis by Pyridine.
20. V. Gold and E. G. Jefferson, *J. Chem. Soc.*, 1409 (1953). The Hydrolysis of Acetic Anhydride. Part 3. The Catalytic Efficiency of a Series of Tertiary Amines.
21. V. Gold and E. G. Jefferson, *J. Chem. Soc.*, 1416 (1953). Quantitative Studies of the Reactivities of Mixed Carboxylic Anhydrides. Part 4. The Hydrolysis and Decomposition of Acetic Formic Anhydride.
22. V. Gold and F. A. Long, *J. Amer. Chem. Soc.*, 75, 4543 (1953). Hydrogen Isotope Exchange Between Anthracene and Sulphuric Acid.

1954

23. D. Bryce-Smith, V. Gold, and D. P. N. Satchell, *J. Chem. Soc.*, 2743 (1954). The Hydrogen Isotope Effect in the Metallation of Benzene and Toluene.
24. V. Gold, J. Hilton, and E. G. Jefferson, *J. Chem. Soc.*, 2756 (1954). A Comparison of the Solvolytic Hydrolysis Reactions of Acetic Anhydride and Benzoyl Chloride.
25. L. Benjamin and V. Gold, *Trans Faraday Soc.*, 50, 797 (1954). A Table of Thermodynamic Functions of Ionic Hydration.
26. R. P. Bell, V. Gold, J. Hilton, and M. H. Rand, *Faraday Soc. Discuss.*, 17, 151 (1954). Developments in the Thermal Maximum Method for Reaction Velocities in Solution.

1955

27. J. I. G. Cadogan, V. Gold, and D. P. N. Satchell, *J. Chem. Soc.*, 561 (1955). The Activity of *p*-Methylbenzyl Radicals. A Novel Application of the Kinetic Isotope Effect.
28. V. Gold and J. Hilton, *J. Chem. Soc.*, 838 (1955). The Hydrolysis of Acetic Anhydride. Part 4. Catalysis by Hydrochloric Acid and the Hydrolysis of Acetyl Chloride.
29. V. Gold and J. Hilton, *J. Chem. Soc.*, 843 (1955). The Hydrolysis of Acetic Anhydride. Part 5. Catalysis by Strong Acids.
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