

**Catalogue of papers and correspondence of Joseph Needham CH FRS
(1900-1995) / by Timothy E. Powell and Peter Harper.**

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Publication/Creation

Bath : University of Bath, 1995.

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National Cataloguing Unit for the Archives of Contemporary Scientists

Catalogue of papers and correspondence

of

JOSEPH NEEDHAM CH FRS

(1900-1995)

by Timothy E. Powell and Peter Harper

VOLUME I

Introduction

Sections A - D

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BZP (Needham)



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Catalogue of papers and correspondence

The work of the National Cataloguing Unit
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JOSEPH NEEDHAM CH FRS

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Gonville and Caius College Cambridge

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Introduction

Sections A - D

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(1860-1957)

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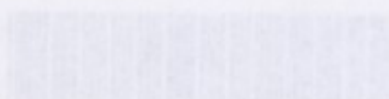
VOLUME I

Introduction

Sections A - D



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GENERAL INTRODUCTION

PROVENANCE

The papers were received in September 1992 from Cambridge University Library. Needham was an important figure in the establishment of the history of science as an academic discipline at Cambridge. He was a founder member of the History of Science Lectures Committee in 1935 which

OUTLINE OF THE CAREER OF JOSEPH NEEDHAM

Noel Joseph Terence Montgomery Needham (known as Joseph) was born in London on 9 December 1900, the son of Joseph Needham (1852-1920) and Alicia Adelaide Needham, née Montgomery (1863-ca.1940). His father was a London doctor specialising in anaesthetics and his mother achieved some fame as a pianist and composer of songs. Joseph Needham was educated at Oundle School 1914-1918 and Gonville and Caius College, Cambridge 1918-1922 where he studied for the Natural Sciences Tripos, specialising in physiology with biochemistry as a subsidiary subject. Needham then went on to postgraduate research in the Cambridge Biochemistry Department under Frederick Gowland Hopkins. He held a Benn Levy Studentship 1922-1924, studying the biochemistry of inositol. He was elected a Fellow of Gonville and Caius College in 1924 and in the same year married Dorothy Mary Moyle (1896-1987), a fellow researcher in the Department. Dorothy Needham was to become an eminent biochemist in her own right (FRS 1948). Needham was appointed University Demonstrator in Biochemistry in 1928 and in 1933 succeeded J.B.S. Haldane as Sir William Dunn Reader in Biochemistry. He held this post until 1966 when he became Master of Gonville and Caius College. He retired from the Mastership in 1976.

Needham's early biochemical research focused on embryology. He studied the development of a complex and sophisticated organism with specialised organs from a single fertilised egg-cell. In his three volume book *Chemical Embryology* published in 1931, Needham explained embryological development as a chemical process, rejecting the view that such development was caused by an undefined vital spark. He then extended this work with research into various aspects of morphology, culminating in his 1942 book *Biochemistry and Morphogenesis*. As well as these two books, Needham produced three other major books on biochemistry and numerous scientific papers.

He combined this high rate of productivity in biochemistry with a prolific output of articles on religious, political and philosophical subjects. Many of these were subsequently republished in Needham's four collections of articles and essays *The sceptical biologist* (1929), *The Great Amphibium* (1931), *Time the refreshing river* (1943) and *History is on our side* (1946). Needham also gave many lectures, likewise on philosophical, religious and political subjects in addition to those of purely

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As well as his contributions to the development of biochemistry in Cambridge Needham was an important figure in the establishment of the history of science as an academic discipline at Cambridge. He was a founder member of the History of Science Lectures Committee in 1936 which set up a programme of lectures in the history of science, featuring some of the greatest scientists of the time - including Barcroft, W.H. Bragg, Haldane, Eddington, Hopkins and Rutherford - lecturing on the history of their disciplines. After the Second World War he served on the History of Science Committee and the History and Philosophy of Science Committee until 1971. Needham was also a leading figure in the International Union of the History and Philosophy of Science. He served on the Council of the Division of the History of Science 1969-1977 (President 1972-1974) and was President of the Union 1972-1975.

Needham's interest in China was awakened by Chinese students at Cambridge from the mid 1930s. He began to learn Mandarin Chinese and study Chinese history, particularly the Chinese contribution to science which he believed had been overlooked by western historians. Needham also became an enthusiastic supporter of British academic assistance to Chinese universities. Joseph and Dorothy Needham volunteered to go to China to help in reconstruction of academic science there. The outbreak of war in Europe set back their plans but in 1942 Needham went to China as Head of the British Scientific Mission and later Scientific Counsellor to H.B.M. Embassy at Chungking (then the 'acting-capital' of China). He also acted as advisor to various arms of the Chinese government and military. Under the auspices of the British Council Needham established the Sino-British Science Cooperation Office (SBSCO). The SBSCO was responsible for assessing the needs of Chinese scientific, technological and medical institutions and researchers, and facilitating the supply of equipment and medicines, books and journals to China. Needham was Director of the SBSCO and Dorothy Needham was Associate Director.

The success of the SBSCO was the immediate inspiration for Needham's vision of postwar international science co-operation. With the form of the future United Nations organisation under intense discussion Needham sent three memoranda to a wide range of political and scientific leaders pressing for the inclusion of scientific co-operation under its auspices. He argued that the proposed United Nations Educational and Cultural Organisation should include science within its remit and he may have been the first to use the abbreviation 'UNESCO'. It was appropriate that in 1946 when Needham left the SBSCO he was appointed the first Director of the Section of Natural Sciences of UNESCO. He served for two years.

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On his return to Cambridge in 1948 Needham began work on his new project - a history of the contribution of China to science and civilisation. This monumental work was to occupy Needham for most of the rest of his life; the first volume of *Science and Civilisation in China* appeared in 1954 and by his death it had run to sixteen volumes. Among those Chinese students who had first encouraged Needham's interest in China was Lu Gwei-Djen, a research student studying under Dorothy Needham in the late 1930s. The Needhams became close friends with Lu and their careers came together again when she returned to Cambridge in 1957 to assist Needham in this work. This immense work of scholarship found a permanent home with the later establishment in Cambridge of the Needham Research Institute as a centre for research on Chinese science. Needham's interest in Chinese civilisation led to his appointment in 1949 to the University Faculty Board of Oriental Languages (later Oriental Studies).

Needham's political sympathies lay very much with the Left. He was a member of the Labour Party and in the 1930s served on the executive committee of the university branch. Needham was on the left of the party and from 1933 was Chairman of the Cambridge branch of the Socialist League. This was dissolved in 1937 following its expulsion from Labour Party for launching a 'Unity Manifesto' with the Independent Labour and Communist parties. In the 1930s Needham was also an active member of the Cambridge Scientists Anti-War Group, which campaigned against militarism and played an important part in securing better air raid precautions by illustrating the inadequacies of government preparations. From 1937 to 1939 Needham served as Treasurer of the Cornford-Maclaurin Memorial Committee. This was established in memory of two Cambridge men killed fighting with the International Brigade to raise funds for the republican cause in Spain. On the outbreak of the Second World War, Needham participated in discussions among Communist Party members and others on the Left as to whether they should support the British war effort. After the German attack on the USSR in 1941 Needham was active in promoting Anglo-Soviet friendship until his departure for China.

After the war Needham supported peace and disarmament campaigns. His strong sympathies for China led to his being a founder of the Britain-China Friendship Association, of which he was President, and its successor the Society for Anglo-Chinese Understanding, of which he was Chairman. In 1952 Needham served on an international scientific commission investigating alleged American use of bacteriological weapons in North Korea and China. The commission's report concluded that the US had indeed been using such weapons and this led to intense criticism of Needham in the UK. Needham opposed the Vietnam war and this led him to refuse invitations to conferences or to lecture in the USA during the 1960s and early 1970s. Needham was also much

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Needham was a religious man. From his student days he was a high church Anglican but combined this with a commitment to social justice. In the 1930s Needham was active in propagating a highly political Christianity emphasising its closeness to Marxism. He was a member of the *ad hoc* editorial board behind the controversial book *Christianity and the social revolution* (1935), to which he also contributed a chapter 'Laud, the Levellers and the Virtuosi'. This and writings such as *The Levellers and the English revolution* (1939), published under the name 'Henry Holorenschaw', linked radical Christianity of the seventeenth century with the politics of the twentieth century. In later years Needham was drawn to Daoism, which he believed offered hope of reconciliation between science and religion. This concern also led to his Presidency of the Teilhard de Chardin Centre for the Future of Mankind. His religious outlook notwithstanding, Needham was also an Honorary Associate of the Rationalist Press Association.

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Needham was elected to the Fellowship of the Royal Society in 1941 and in 1971 elected a Fellow of the British Academy, thus becoming one of very few to attain this double distinction. In 1992 he was appointed a Companion of Honour. He also held many honorary Chairs, fellowships and doctorates worldwide. Needham died in 1995, outliving both Dorothy Needham, who died in 1987, and his second wife Lu Gwei-Djen, whom he had married in 1989 but who died in 1991.

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DESCRIPTION OF THE COLLECTION

committees, set up to continue the co-ordination of research.

The material is presented in the order given in the List of Contents. The collection is very extensive and includes important records of Needham's family background, his career as a biochemist, his work with the Sino-British Science Cooperation Office and UNESCO, and his political and religious interests.

Section A, Biographical, is the largest in the collection. Needham's childhood and school-days are represented chiefly by correspondence with his parents. His period as an undergraduate and postgraduate at Cambridge is documented by correspondence with his mother and material concerning his religious activities, including his membership of the Oratory of the Good Shepherd and the Guild of St Luke and some of his religious writings. Needham's later career is less well documented, although there is material relating to his election to the Fellowship of the Royal Society in 1941.

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The largest component of the section is the papers of his mother, Alicia Adelaide Needham, which were inherited by Joseph Needham on her death. These include her autobiography 'A Daughter of Music', her diaries covering the period 1879-1924, a long sequence of her musical compositions (many of which were published) together with other material relating to her career as pianist and composer, and an extensive correspondence 1877-1921. In addition there is a little material relating to Needham's father and maternal grandfather. Family material also includes papers relating to Needham's cousin Elizabeth Montgomery Wilson, a nurse who served in the 1899-1902 South African War. The papers include photographs, letters and memorabilia from her time in South Africa.

Section of Natural Sciences 1945-1946. There are also papers from meetings of the UNESCO. The section also documents some of the trades union and charitable bodies with which Needham was associated, social engagements and functions (many at Cambridge 1919-1937), and family and personal finance 1933-1959. *Committee for Co-operation with UNESCO in the Natural Sciences.*

Section B, Cambridge, includes documentation of the Department of Biochemistry, general University matters, the development of history of science at Cambridge, the Faculty of Oriental Studies and Gonville and Caius College. The bulk of the material relates to the Department of Biochemistry. This is chiefly syllabuses, bibliographical references, notes on the literature, annotated offprints etc used for Needham's lectures on biochemistry to postgraduates in the 1950s and 1960s. There is also significant material regarding the funding of research in the Department, 1925-1943, and visitors to the Department. Also of interest is correspondence and papers relating to Needham's contribution to the co-ordination of wartime biological and biochemical research in Cambridge. This includes papers of the Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society and the Biology War Committee, set up to continue the co-ordination of research.

Lecture notes, notes on the literature, and research material 1924-1942. The research material was

The documentation of Needham's role in the establishment of the history and philosophy of science as an academic discipline in Cambridge University includes papers from the History of Science Lectures Committee 1936-1937 and, postwar, the History of Science Committee and the History and Philosophy of Science Committee.

Section C, Sino-British Science Cooperation Office (SBSCO), includes correspondence on the origins of the China mission, chiefly relating to the Needhams' support for Chinese academics and students 1939-1942 and arrangements for Needham's journey to China in 1942, and correspondence from Needham's time in China and later correspondence arising from the contacts he made while in China. There are also Needham's manuscript notes on his visits to scientific, medical, industrial and educational institutions throughout China, manuscript and typescript drafts for lectures - frequently delivered in association with his visits to various institutions, detailed reports of travels within China and *The Levellers and the English revolution (1939)*, which was published under the name Henry

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for the British Council, and publications arising from his work, including accounts for *Nature* and material relating to his book *Science Outpost* in which he described the work of the SBSCO.

Section D, United Nations Educational, Scientific and Cultural Organisation (UNESCO), documents Needham's role in the establishment of UNESCO and his Directorship of the Section of Natural Sciences. From an early date Needham kept material he believed would be of historical significance, particularly those papers relating to his three memoranda on the establishment of international science co-operation and the creation of UNESCO. The largest component is material relating to the Section of Natural Sciences 1946-1948. There are also papers from meetings of the UNESCO General Conference, administrative papers and correspondence from the UNESCO Executive, and papers relating to the project for a Scientific and Cultural History of Mankind. The section also includes papers of the British Committee for Co-operation with UNESCO in the Natural Sciences.

Section E, Undergraduate and research work, presents a record of Needham's work in biochemistry and embryology from undergraduate notes and essays, postgraduate studies and research in embryology and morphology in the 1920s and 1930s, to research completed just before his departure for China in 1942. There are notebooks used for undergraduate notes on lectures by many leading Cambridge scientists including Hopkins, H. Hartridge, R.A. Peters and Barcroft, notebooks used during long vacation courses, and notebooks covering research from 1921 to 1943. The research notebooks are particularly striking for the high quality of information they present. The entries usually identify the nature of the experiment and its date and are often annotated with remarks on why the results of particular experiments were not as expected, what might have gone wrong and how this might be remedied. The section also includes undergraduate and postgraduate lecture notes, notes on the literature, and research material 1924-1942. The research material was mostly found in Needham's folders with a note of the subject inscribed thereon. The notes, bibliographical references, offprints and correspondence found in these folders may cover a period of many years, reflecting Needham's continuing interest in all aspects of research into embryology and morphology.

Section F, Publications, is extensive but chiefly relates to Needham's pre-war and wartime publications. Included in the section are not only drafts of many of his scientific papers and books but also writings on philosophical, religious and political themes. A number of his more scientific works are particularly well-documented. These include his philosophical monograph *Man a Machine* (1927) and his two most significant biochemistry books *Chemical Embryology* (1931) and *Biochemistry and Morphogenesis* (1942). Among Needham's political writings represented are his article 'Laud, the Levellers and the Virtuosi', published in *Christianity and the social revolution* (1935), and *The Levellers and the English revolution* (1939), which was published under the name 'Henry

for the British Council, and publications arising from his work, including accounts for libraries and material relating to his book *Science Outpost* in which he described the work of the UNESCO.

Section D, United Nations Educational, Scientific and Cultural Organisation (UNESCO), documents Needham's role in the establishment of UNESCO and his Chairmanship of the Section of Natural Sciences. From an early date Needham kept material he believed would be of historical significance, particularly those papers relating to his three memoranda on the establishment of international science co-operation and the creation of UNESCO. The largest component is material relating to the Section of Natural Sciences 1946-1948. There are also papers from meetings of the UNESCO General Conference, administrative papers and correspondence from the UNESCO Executive, and papers relating to the project for a Scientific and Cultural History of Mankind. The section also includes papers of the British Committee for Co-operation with UNESCO in the Natural Sciences.

Section E, Undergraduate and research work, presents a record of Needham's work in biochemistry and embryology from undergraduate notes and essays, postgraduate studies and research in embryology and morphology in the 1920s and 1930s, to research completed just before his departure for China in 1942. There are notebooks used for undergraduate notes on lectures by many leading Cambridge scientists including Hodge, H. Hattersley, R.A. Fisher and Huxley. Notebooks used during long vacation courses, and notebooks covering research from 1927 to 1942. The research notebooks are particularly striking for the high quality of observation they present. The entries usually identify the nature of the experiment and its date and are often illustrated with remarks on why the results of particular experiments were not as expected, often with some guess as to how this might be remedied. The section also includes undergraduate and postgraduate lecture notes, notes on the literature, and research material 1924-1942. The research material was mostly found in Needham's folders with a note of the subject recorded thereon. The notes, bibliographical references, outlines and correspondence found in these folders may cover a period of many years, reflecting Needham's continuing interest in all aspects of research into embryology and morphology.

Section F, Publications, is extensive but chiefly relates to Needham's pre-war and wartime publications. Included in the section are not only drafts of many of his scientific papers and books but also writings on philosophical, religious and political themes. A number of his more scientific works are particularly well-documented. These include his philosophical monograph *Man a Machine* (1927) and his two most significant biochemistry books *Chemical Embryology* (1937) and *Biochemistry and Morphogenesis* (1942). Among Needham's political writings represented are the article *Laurel and the Levellers*, published in *Christianity and the Social Revolution* (1932) and *The Levellers and the English Revolution* (1933), which was published under the name Henry

Holorenschaw'. There is also good documentation of the books *The sceptical biologist*. (1929), *The Nazi Attack on International Science* (1941), *Science in Soviet Russia* (1942), and his two final collections of articles *Time the refreshing river* and *History is on our side*, published in 1943 and 1946 respectively. Needham's later publications represented include his paper 'History and Human Values: a Chinese perspective for world science and technology', published in the *Centennial Review* and subsequently in *The radicalisation of science. Ideology of/in the natural sciences* (1976) edited by S.P.R. and H. Rose.

The section also includes a number of Needham's translations of Polish and Chinese texts, including *Green Thralldom* by Tang Pei-Sung (1949), extensive editorial correspondence, including requests to write articles or books, and an incomplete set of Needham's offprints.

Section G, Lectures and broadcasts, presents some of Needham's public and invitation lectures delivered on scientific, philosophical, political and religious subjects 1921-1977. There is also a little material relating to broadcasts. Among Needham's lectures documented here are the Terry Lectures on 'Order and Life' at Yale University, 1935, the Herbert Spencer lecture on 'Integrative levels', Oxford, 1937, the Schiff Foundation Lecture on 'The position of science in Europe today', delivered at Cornell University, October 1940, and his 1961 commemorative lecture on 'The Life and Work of Sir Frederick Gowland Hopkins' delivered at Cambridge. The section also includes invitations either declined or for which there is no evidence or acceptance, 1927-1974. Broadcasts material includes a BBC radio talk by Needham on 'Recent advances in medical science', broadcast from Glasgow, 19 August 1923.

Section H, Visits and conferences, presents a chronological sequence of material relating to some of Needham's visits and conferences 1920-1984. It is similar to sections F and G in representing not only Needham's biochemical interests but also his political and religious concerns. Thus the section includes conferences of the Student Christian Movement held at Swanwick in Derbyshire in the 1920s and 1930s and the 1936 World Congress of Faiths. There is correspondence and papers relating to his visit to the USA in 1940, during which scientific engagements were combined with lectures on the position of science in Europe, with particular emphasis on the damage to scholarship caused by the Nazis. Also particularly well-documented are the 220th Anniversary of the Academy of Sciences of the USSR, June 1945, the First International Congress of Biochemistry, Cambridge, August 1949, Needham's visit to the USA March - May 1950 as the Hitchcock Visiting Professor at the University of California, Berkeley, and the First Congress of Polish Science held in Warsaw, 1951. The sequence includes many invitations declined. From the late 1950s Needham declined many invitations, being occupied with his work on *Science and Civilisation in China*, and he also

Historians. There is also good documentation of the book *The Scientific Revolution* (1959). The *New Atlas on International Science* (1941), *Science in Soviet Russia* (1945), and his two first collections of articles *Think the Industrial Revolution and History is on our side* published in 1943 and 1945 respectively. Needham's last publications represented include his paper *History and Human Values: a Chinese perspective for world science and technology*, printed in the *Continental Review* and subsequently in *The industrialization of science: ideology and the natural sciences* (1978) edited by S.P.R. and H. Rose.

The section also includes a number of Needham's translations of Polish and Chinese texts, including *Green Thirst* by Tang Pei-Sung (1948), extensive editorial correspondence, including requests to write articles or books, and an incomplete set of Needham's diaries.

Section G, *Lectures and broadcasts*, presents some of Needham's public and invitation lectures delivered on scientific, philosophical, political and religious subjects 1951-1977. There is also a list material relating to broadcasts. Among Needham's lectures documented here are the *Tony Lectures* on 'Order and Life' at Yale University, 1955, the *Hobart Spencer lectures* on 'Integrative levels', Oxford, 1957, the *Solih Foundation lectures* on 'The position of science in Europe today', delivered at Cornell University, October 1940, and the 1961 commemorative lecture on 'The Life and Work of St. Frederick Goswami Hopkins' delivered at Cambridge. The section also includes invitation letters declined or for which there is no evidence of acceptance, 1957-1974. Broadcasts material includes a BBC radio talk by Needham on 'Recent advances in medical science', broadcast from Glasgow, 19 August 1953.

Section H, *Visits and conferences*, presents a chronological sequence of material relating to some of Needham's visits and conferences 1950-1984. It is similar to sections F and G in representing not only Needham's biographical interests but also his political and religious concerns. Thus the section includes conferences of the Student Christian Movement held at Swenwick in Derbyshire in the 1950s and 1960s and the 1956 World Congress of Fathers. There is correspondence and papers relating to his visit to the USA in 1940, during which scientific engagements were confined with lectures on the position of science in Europe, with particular emphasis on the damage to scholarship caused by the Nazis. Also particularly well-documented are the 220th Anniversary of the Academy of Sciences of the USSR, June 1945, the First International Congress of Biochemistry, Cambridge, August 1948, Needham's visit to the USA March - May 1950 as the Hibbick Visiting Professor at the University of California, Berkeley, and the First Congress of Polish Science held in Warsaw, 1951. The sequence includes many invitation letters declined. From the late 1950s Needham declined many invitations, being occupied with his work on *Science and Civilization in China*, and he also

refused to visit the USA during the period of American involvement in Vietnam as an expression of his disapproval of US government policy.

Section J, Societies and organisations, is substantial. It brings together documentation of Needham's involvement with 44 British and international societies and organisations. However, the material relating to scientific societies is disappointing. Perhaps of most interest are papers of the Theoretical Biology Club, an informal gathering of biologists and others established by J.H. Woodger in 1932 to discuss philosophical implications of developments in the biological sciences, and papers from meetings of the Society of Experimental Biology and the Physiological Society. Needham's interest in the history of science is better documented in the papers of a number of organisations including the Académie Internationale d'Histoire des Sciences and the International Union for the History and Philosophy of Science. Needham's international outlook is illustrated by his chairmanship of the Commission on the University of Ceylon in 1958, for which there is extensive documentation, and his support of the World Academy of Art and Science from its foundation in 1959. Other societies and organisations for which there is substantial material include the Louis Rapkine Memorial Fund Appeal and the British Society for Social Responsibility in Science.

Section K, Politics, documents Needham's wide-ranging and active involvement in politics of the Left. Pre-war material includes documentation of the Labour Party in Cambridge in the mid-1930s, including Dorothy Needham's campaigns as a Labour candidate for Cambridge City Council in 1935 and 1936, and the Cambridge Scientists Anti-War Group. There are also comprehensive records of fund-raising for the Cornford-Maclaurin Memorial Committee, and notes of the discussions which took place among Cambridge Communists and sympathisers on the outbreak of the Second World War as to whether they should support the British war effort. Post-war documentation suggests Needham played a less active role in British political life. Most of this material relates to his support of peace and disarmament campaigns.

Needham's international outlook, naturally focused on China, is well-represented in the papers. After the establishment of the People's Republic in 1949 Needham was keen to strengthen links between the Peking government and the UK. Both the Britain-China Friendship Association and its successor organisation the Society for Anglo-Chinese Understanding are documented, especially the response of these organisations to the border dispute between India and China, the ideological conflict between China and the USSR and the Cultural Revolution. There is also material relating to the 1952 International Scientific Commission investigating the alleged US use of bacteriological weapons in North Korea and China, opposition to the Vietnam war, and to Needham's concern about human rights abuses worldwide, reflected in papers of organisations such as Amnesty International.

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Section L. China, documents Needham's involvement in the Sino-British relationship. After the establishment of the People's Republic in 1949 Needham was keen to strengthen links between the Peking government and the UK. Both the British-China Friendship Association and its successor organisation the Society for Anglo-Chinese Understanding are documented, especially the response of these organisations to the border dispute between India and China, the ideological conflict between China and the USSR and the Cultural Revolution. There is also material relating to the 1952 International Scientific Commission investigating the alleged US use of biochemical weapons in North Korea and China, opposition to the Vietnam war, and to Needham's concern about human rights abuses worldwide, reflected in papers of organisations such as Amnesty International.

The section also includes material relating to Needham's interest in civil liberties, academic freedom and the role of the scientist as political activist. Represented are organisations such as the Association of Scientific Workers, the National Council for Civil Liberties, the Society for Freedom in Science and the World Federation of Scientific Workers. There is also a little material on environmental causes, most notably the Anti Concorde Project 1967-1975.

Needham's papers and correspondence relating to chemical and biological warfare are deposited in

Section L, Religion and society, represents Needham's more religious and philosophical concerns. It includes documentation of his association with various religious (and humanist) organisations including the Oldham Group and the Teilhard Centre for the Future of Man, and religious and philosophical literature including tracts, sermons and offprints. Much of this is concerned with the relationship between science and religion. *ACS 12/7/90 and 5/7/92.*

Section M, Correspondence, consists of a sequence of longer exchanges arranged alphabetically by correspondent, a sequence of shorter exchanges and single letters arranged chronologically and, for convenience, sequences of correspondence relating to China, Poland and the Soviet Union, and with British and international orientalisks, kept together by Needham. Correspondents of particular note include Jean Brachet, the refugee German scientist J.K.F. Holtfreter, the Roumanian scientist Basile Marza, C.H. Waddington and J.H. Woodger, founder of the Theoretical Biology Club. The pre-war correspondence is chiefly incoming letters, there are few carbon copies or drafts of outgoing letters. Most of the letters relate to some aspect of Needham's scientific research. The postwar correspondence has a higher proportion of letters relating to Needham's philosophical, political and religious concerns.

It should be noted that there is extensive correspondence throughout the catalogue. Much of Needham's correspondence is to be found in other sections where it is retained with the material with which it was found.

There is also a conspectus to the partial listing of Needham papers and correspondence compiled by G. Werskey in 1968 and an index of correspondents.

The section also includes material relating to Needham's interest in civil liberties, academic freedom and the role of the scientist as political activist. Represented are organisations such as the Association of Scientific Workers, the National Council for Civil Liberties, the Society for Freedom of Science and the World Federation of Scientific Workers. There is also a list of material on environmental issues, most notably the Anti-Concorde Project 1967-1972.

Section L, Religion and society, represents Needham's more religious and philosophical concerns. It includes documentation of his association with various religious (and irreligious) organisations including the Oxford Group and the Teilhard Centre for the Future of Man, and religious and philosophical literature including books, sermons and ephemera. Much of this is concerned with the relationship between science and religion.

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There is also a catalogue to the partial listing of Needham papers and correspondence compiled by G. Wenley in 1968 and an index of correspondents.

LOCATION OF OTHER MATERIAL

Papers relating to Needham's work on *Science and Civilisation in China* are held at the Needham Research Institute, Sylvester Road, Cambridge.

Needham's papers and correspondence relating to chemical and biological warfare are deposited in the Department of Documents, Imperial War Museum, London. They are catalogued as NCUACS 55/4/95.

The papers and correspondence of Dorothy Needham are deposited in the Library, Girton College, Cambridge. They are catalogued as NCUACS 22/7/90 and 37/5/92.

Timothy E. Powell

Peter Harper

BATH 1995

LOCATION OF OTHER MATERIAL

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Needham's papers and correspondence relating to chemical and biological sciences are deposited in the Department of Document, Imperial War Museum, London. They are catalogued as NCUACS 327152. The papers and correspondence of Dorothy Needham are deposited in the Library, Girton College, Cambridge. They are catalogued as NCUACS 327150 and 327151.

Needham's papers and correspondence relating to his work on the history of science and technology are deposited in the Department of Document, Imperial War Museum, London. They are catalogued as NCUACS 327152. The papers and correspondence of Dorothy Needham are deposited in the Library, Girton College, Cambridge. They are catalogued as NCUACS 327150 and 327151.

Needham's papers and correspondence relating to his work on the history of science and technology are deposited in the Department of Document, Imperial War Museum, London. They are catalogued as NCUACS 327152. The papers and correspondence of Dorothy Needham are deposited in the Library, Girton College, Cambridge. They are catalogued as NCUACS 327150 and 327151.

SECTION A

BIOGRAPHICAL

A.1 - A.695

A.1-A.18 BIOGRAPHICAL AND AUTOBIOGRAPHICAL

A.19-A.43 CHILDHOOD

A.44-A.83 UNDERGRADUATE AND POSTGRADUATE

A.84-A.96 CAREER, HONOURS AND AWARDS

A.97-A.641 FAMILY

A.642-A.655 CLUBS, ASSOCIATIONS AND OTHER INTERESTS

A.656-A.677 SOCIAL ENGAGEMENTS AND INVITATIONS

A.678-A.693 FINANCIAL

A.694, A.695 MISCELLANEOUS

A.7-A.9

Correspondence with J.A. Wilkowski, 1960-1986, 3 folders.

Wilkowski researched into the history of biochemistry and embryology. He drafted papers on biochemical work on the evocator in the 1930s (at A.8) and on the Cambridge school of chemical embryology 1920-1942 (at A.9), both of which centred on the work of Needham.

A.1 - A.95

BIOGRAPHICAL

SECTION A

BIOGRAPHICAL AND AUTOBIOGRAPHICAL

A.1-A.18

CHILDHOOD

A.19-A.43

UNDERGRADUATE AND POSTGRADUATE

A.44-A.53

CAREER, HONOURS AND AWARDS

A.54-A.56

FAMILY

A.57-A.61

CLUBS, ASSOCIATIONS AND OTHER INTERESTS

A.62-A.66

SOCIAL ENGAGEMENTS AND INVITATIONS

A.67-A.77

FINANCIAL

A.78-A.80

MISCELLANEOUS

A.81-A.95

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Biographical

BIOGRAPHICAL AND AUTOBIOGRAPHICAL

F. Bedford, Honorary Archivist of the Biochemical Society, re-typed interviews of Needham's recollections, 1988.

- A.1 Obituaries of Needham, 27 March 1995:
A.11-A.13 Other requests for autobiographical information and historical or
The Times.
Daily Telegraph.
A.11 Correspondence 1972-1978. The correspondence with the *London Times* and
Guardian.
Independent. With reminiscences, 29 and 30 March and 24 April 1995.
A.12 13pp typescript of interview with Thomas Brennan about the historian
Gordon Chide, 17 March 1977.
- A.2 Biographical notes ca.1936, ca.1947 (compiled for UNESCO Section of
Natural Sciences) and 1948 (compiled for unidentified Chinese institution).
A.13 Correspondence re J.H. Quastel, 1965, 1967.
Entry from *Who's Who*, 1995.
A.14-A.17 'The personal papers of Dr. Joseph Needham, F.R.S.: A Preliminary
Catalogue by Gary Wansley, August 1985'. 80pp photocopied typescript
- A.3, A.4 Bibliographies. 4 folders.
- A.3 1927, 1932.
A.16 Passport, 1935-1946. Includes travel permits enclosed at front.
- A.4 1934, ca.1937.
- CHILDHOOD
- A.5, A.6 'Joseph Needham, a great amphibian'.
Typescript draft of chapter four of *The Rebirth of Organic Form: an
Organismic Paradigm in Twentieth Century Developmental Biology* by D.J.
Haraway (Yale, 1975) sent to Needham by the author. Paginated 155-225.
2 folders.
Oundle School
- Infancy
- A.19-A.21 Bath and Christening.
A.7-A.9 Correspondence with J.A. Witkowski, 1980-1986. 3 folders.
A.10 Witkowski researched into the history of biochemistry and embryology. He
drafted papers on biochemical work on the evocator in the 1930s (at A.8)
and on the Cambridge school of chemical embryology 1920-1942 (at A.9),
both of which centred on the work of Needham.

Willowalski researched into the history of biochemistry and embryology. He drafted papers on biochemical work on the evolution in the 1930s (at A.8) and on the Cambridge school of chemical embryology 1920-1942 (at A.9), both of which centered on the work of Haeckel.

Correspondence with J.A. Willows, 1980-1986. 2 folders.

The chapter describes the part Haeckel played in linking biochemistry with morphogenesis in the 1930s.

Typewritten draft of chapter four of *The Rebirth of Organic Form: an Organic Paradigm in Twentieth Century Developmental Biology* by D.J. Hanway (Yale, 1972) sent to Haeckel by the author. Paginated 186-225. 2 folders.

'Joseph Haeckel, a great biologist'.

1934, ca 1937.

1927, 1932.

Bibliography.

Entry from *Index* 1932, 1935.

Biographical notes ca 1938, ca 1947, compiled for UNESCO Section of Natural Sciences, and 1948 (original for *International Chinese Institute*).

Independent. With correspondence, 20 and 30 March and 24 April 1938.

Question.

Daily Telegraph.

The Times.

Obituary of Haeckel, 27 March 1942.

BIOGRAPHICAL AND AUTOBIOGRAPHICAL

Biographical

Biographical

A.10 Correspondence with H.F. Bradford, Honorary Archivist of the Biochemical Society, *re* videotaped interviews of Needham's recollections, 1986.

A.11-A.13 Other requests for autobiographical information and historical or philosophical reflections.

A.11 Correspondence 1972-1978.

A.12 13pp typescript of interview with Theresa Brennan about the historian Gordon Childe, 17 March 1977.

A.13 Correspondence *re* J.H. Quastel, 1985, 1987.

A.14-A.17 'The personal papers of Dr. Joseph Needham, F.R.S.: A Preliminary Catalogue by Gary Werskey...August 1968'. 89pp photocopied typescript and manuscript. 4 folders.

A.18 Passport, 1935-1945. Includes travel permits enclosed at front.

CHILDHOOD

A.19-A.29 Infancy

Letter from Bradford, on holiday in France, to father, 18 April 1913.

A.30-A.43 Oundle School

Infancy

A.19-A.21 Birth and Christening.

A.19 Letters and telegrams of congratulations on birth, enquiries after health of mother and son etc.

Biographical

Correspondence with H.F. Bickford, Honorary Secretary of the Biographical Society, re proposed views of Neetham's recollections, 1955.

Other requests for autobiographical information and related or philosophical reflections.

Correspondence 1972-1974.

1980 typescript of interview with Thomas Bannan about the history of Gordon Childs, 17 March 1977.

Correspondence to J.H. Gussell, 1955, 1957.

The personal papers of Dr. John Neetham, F.R.S. A Preliminary Catalogue by Gary Hickey, August 1982. 20pp photocopied typescript and manuscript, 4 folders.

Papers, 1935-1945. Includes four panels enclosed at front.

CHILDHOOD

Infancy A.19-A.28
Gordon School A.29-A.43

Infancy

Birth and Christening

Letters and telegrams of congratulations on birth, enquiries after health of mother and son etc.

Biographical

- A.20 Memorabilia from Christening, 28 February 1901, including telegrams of good wishes.
See E.1-E.4 for notebooks which include science notes from Oundle School.
- A.21 Miscellaneous memorabilia.
A.30-A.38 *Correspondence between Needham at Oundle School, and parents, 1914-1918.*
- A.22, A.23 'Letters about Darling Little Baby'. Contents of envelope so inscribed divided into two for ease of reference.
A.30
- A.22 Correspondence from nurse to mother, reporting on the baby's welfare, July 1901.
A.31 *January, February.*
- A.23 Miscellaneous memorabilia, including material 1902, 1903.
- A.24, A.25 Letters from nurse and maid to his mother (visiting Ireland), reporting on the baby's welfare, ca. April-May 1902. 2 folders.
- A.34 *1915 November.*
- A.26 Early letters from Needham to his mother.
- A.35 *1916 January - June.*
- A.27 Letters from parents to Needham 1902-1906.
- A.36 *1916 September - December.*
- A.28 Letters from parents to Needham 1907-1908.
- A.37 Letter from Needham, on holiday in France, to father, 19 April 1913.
- A.29 Childhood drawings and other memorabilia.
- A.39 Letters from staff at Oundle to Needham's parents, chiefly re Needham's health, 1914-1917.

Biographical

- A.20 Memorabilia from Christmas, 28 February 1901, including telegram of good wishes.
- A.21 Miscellaneous memorabilia.
- A.22, A.23 Letters from Emily to Little Baby. Contents of envelope as inclosed divided into two for ease of reference.
- A.22 Correspondence from Emily to mother, regarding the baby's welfare, 1901.
- A.23 Miscellaneous memorabilia, including material 1902, 1903.
- A.24, A.25 Letters from Emily and Emily to her mother (including letters), regarding the baby's welfare, on 19 April 1902, 2 letters.
- A.26 Early letters from Neesham to his mother.
- A.27 Letters from parents to Neesham 1902-1908.
- A.28 Letters from parents to Neesham 1907-1908.
- A.29 Letter from Neesham, on holiday in France, to father, 19 April 1912.
- A.29 Childhood drawings and other memorabilia.
- A.30 Letters from Neesham to his mother, 1902-1908.

Biographical

Oundle School

Handbook of school arranged on first pages alternately "History notes volume 1" and "2" (other) History notes. From "The Black Death" to ". Used
See E.1-E.4 for notebooks which include science notes from Oundle School.

A.30-A.38

Correspondence between Needham at Oundle School, and parents, 1914-1918.

A.41

1914.

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1914.

A.31

1915 January, February.

A.32

1915 May.

A.33

1915 June, July.

A.34

1915 November.

A.35

1916 January - June.

A.36

1916 September - December.

A.37

1917, 1918.

A.38

Nd.

A.39

Letters from staff at Oundle to Needham's parents, chiefly *re* Needham's health, 1914-1917.

Biographical

Letters from staff at Gurdale to Needham's parents, chiefly to Needham's health, 1914-1917.	A.38
No.	A.38
1917, 1918	A.37
1916 September - December.	A.36
1916 January - June.	A.35
1915 November.	A.34
1915 June, July.	A.33
1915 May.	A.32
1915 January, February.	A.31
1914.	A.30
Correspondence between Needham at Gurdale School, and parents, 1914-1918.	A.30-A.38
See E 1-54 for notebooks which include school notes from Gurdale School.	
Gurdale School.	

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Biographical

- A.40 Hildesheim and Calves College Hardback notebook inscribed on first pages alternately 'History notes volume ii' and 'Vol. 3 (notes) History notes. From "The Black Death" to '. Used Easter and Summer terms 1916. Paginated 1-82, with index at back. Not all pages used. Intercalated loose is duplicated manuscript French and Greek teaching material.
- A.41 Essay on 'Roman Medicine', 15pp manuscript.
- A.42 Manuscript essays on 'My first operation', 4pp, 20 January 1917; 'A true war memorial', 4pp; 'The king who fights his subjects fights himself', 4pp; 2pp English essay; 4pp essay on D.W. Griffiths.
- A.43 Miscellaneous material from school years, including manuscript poems 'The younger generation', 15 May 1917; 'Questions', August 1917; and untitled.

UNDERGRADUATE AND POSTGRADUATE

For undergraduate and postgraduate notebooks and notes see section E.

First World War

- A.44 Papers *re* service in Cambridge University Officer Training Corps, 1918; ration book.

King's College London

- A.45 Timetable for Faculty of Science, 1917-1918; annotated Zoology examination papers, June 1918; timetable for occasional student in Faculty of Medical Science, 1919-1920; calendar of advanced lectures in physiology, 1919-1920; manuscript notes on morbid anatomy.

A.54-A.61 The Ostrory of the Good Shepherd.

This was an Anglican fellowship established in 1913. The headquarters in Cambridge provided a semi-communal Anglo-Catholic environment.

Biographies

Handbook notebook inscribed on first page alternately Henry notes when
E and Vol 2 (note) Henry notes. From "The Black Country" to "Last
Easter and Summer term 1919. Engraved 1-82, with index at back. Not
all pages used. Inscribed also a duplicate manuscript French and
Greek facing material.

Essay on Roman Medicine, 18pp manuscript.

Manuscript essay on the first operation, 4pp, 20 January 1917. A two star
memoir, 4pp. The long who fight in subjects 8/10/1917, 4pp. 2pp
English essay, 4pp, essay on D.W. Collins.

Miscellaneous material from school years, including manuscript poem 'The
younger generation', 15 May 1917, 'Questions', August 1917, and others.

UNDERGRADUATE AND POSTGRADUATE

For undergraduate and postgraduate notebooks and notes see section E.

First World War

Papers in service in Cambridge University Officer Training Corps, 1918;
ration book.

King's College London

Timetable for Faculty of Science, 1917-1918; annotated Zoology
examination paper, June 1918; timetable for occasional student in Faculty
of Medical Science, 1919-1920; calendar of advanced lectures in physiology,
1919-1920; manuscript notes on medical anatomy.

Biographical

Gonville and Caius College Cambridge

Academic

- A.46 Correspondence *re* admission to Gonville and Caius, 1918.
- A.47 Booklet of Previous Examination papers, October 1917, probably used in preparation for taking the examination in March 1918; annotated Previous Examination papers, March 1918.
- A.48 Examination papers for Preliminary Examination in science, 1918; Natural Sciences Tripos examination papers 1920, 1922; first page of essay on 'Blood as a Tissue', inscribed 'Caius Nat. Sci. Essay Prize 21.vi.'21'.
- A.49 List of College residents 1919; manuscript timetables; manuscript notes on work to be done; etc.

Religious societies

- A.50 Guild of St Luke.
Needham was admitted to the Guild in 1919. His name was removed from the membership list in 1936.
- A.51-Pocket manual; calendars; letter informing Needham of the removal of his name from the membership list, 11 November 1936.
- A.51-A.53 Church of the Holy Spirit, Clapham.
Needham served at the Church during vacations. 1925.
Church newsletters, calendars etc, 1920-1923. 3 folders.
- A.54-A.61 The Oratory of the Good Shepherd.
This was an Anglican fellowship established in 1913. The headquarters in Cambridge provided a semi-communal Anglo-Catholic environment.
.../

Biographical

- Gonville and Caius College Cambridge
Academic
Correspondence is submitted to Gonville and Caius, 1918.
A.46
Books of Previous Examination papers, October 1917, probably used in preparation for taking the examination in March 1918; annotated Previous Examination papers March 1918.
A.47
Examination papers for Preliminary Examination in science, 1918; Natural Science Tripos examination papers 1920, 1922; first paper of essay on 'Shed as a Temple, described Yous Hui, 8th Century, page 21 & 27'.
A.48
List of College residents 1918; manuscript checklist; manuscript notes on work to be done etc.
A.49
Religious societies
A.50
Guild of St Luke.
Needham was admitted to the Guild in 1918. His name was removed from the membership list in 1938.
A.51
Pocket manual; calendar; letter informing Needham of the removal of his name from the membership list, 17 November 1938.
A.51-A.52
Church of the Holy Spirit, Clapham.
Needham served at the Church during vacations.
A.53
Church newsletter, calendars etc, 1920-1928, 2 folders.
A.54-A.61
The Obituary of the Good Shepherd.
This was an Anglican fellowship established in 1913. The headquarters in Cambridge provided a semi-communal Anglo-Catholic environment.

Biographical

A.52 Needham applied to join the Oratory as a probationer in 1920 and 1921, and was admitted as a novice from 1921. He was resident at Oratory House.

Needham was admitted as a novice in October 1920.

A.54 Printed material 1915, 1916, 1919; application to reside in Oratory House and begin noviciate from October 1920; list of the confraternity and calendar; application to become a probationer and reside at Oratory House.

Religious and literary writings

A.55 Pocket notebook inscribed on first page 'O. G. S. Register of Rcts and payments' September 1921 - 1923. Most pages not used.

A.53-A.57 Religious verses, notes on the religious life etc.

A.56 Hardback pocket notebook inscribed inside front cover '...Admitted to Noviciate, 10.ix.'21. Professed...' and on first page 'Faults in the Rule of O.G.S.'. Used to record his own failings in performing the duties of the Oratory September 1921 - ?January 1922. Most pages not used.

A.54 Manuscript draft ?of sermon on Epiphany.

A.57 Hardback notepad inscribed on first page '...Retreat addresses'. Used for texts of Needham's sermons given while on OGS annual retreat 1921. In pocket at back are loose notes from OGS retreats 1920 and 1922. Most pages not used.

A.55 'Library of Natural Science', poem in honour of St Luke.

A.58 Needham's manuscript notes on the Rule of the OGS and personal religious observances; 12pp manuscript draft 'Apology for the Scientific Work of the Oratory' by Needham.

A.59 Miscellaneous OGS papers, including duplicated manuscript notes of meetings, calendars etc, 1921.

Miscellaneous untitled verses and manuscript notes.

A.60 Correspondence from OGS members in Cambridge and overseas, March - May 1922 and nd; miscellaneous OGS papers, including duplicated manuscript notes of meetings, etc, 1922, 1923, 1925.

A.55-A.71

A.61 Poems: 'To the Order of Knights Templars', one dated October 1918; 'On Annual reports 1920-21 - 1940-41. Not a complete sequence. 1918; 'Labor Omnia Vincit', January 1919; untitled, December 1919 and January 1919; 'Coal tar', March 1919.

Biographical

- A.62 Confraternity of the Holy Trinity.
Needham was admitted as a member in October 1920.
Pocket manual.

Religious and literary writings

- A.63-A.67 Religious verse, notes on the religious life etc.
- A.63 Exercise book inscribed on front cover 'Sound' but used for 'Abstracts of books bearing on the religious life'.
- A.64 Manuscript draft ? of sermon on Epiphany.
- A.65 'Introit to be sung by the Medical procession of the Guild of St Luke in St Paul's Cathedral'; 'Litany of Natural Science'; poem in honour of St Luke.
- A.66 Poems: 'To the priests of ancient Egypt'; 'The Way'; 'Lord of the World'.
Responsive prayer.
- A.67 Poems: 'Agnosticism'; 'To D.A.'; 'To the Anglican branch of the Catholic Church'; 'The Song of Praise'; 'The Immortality of Matter'; 'Psalm'.
Miscellaneous untitled verse and manuscript notes.
- A.68-A.71 Other verse etc.
- A.68 Poems: 'To the Order of Knights Templars', one dated October 1918; 'On the Chemical Laboratories Cambridge Univ', 28 December 1918; 'Labor Omnia Vincit', January 1919; untitled, December 1918 and January 1919; 'Coal tar', March 1919.

Biographical

- A.62 Confession of the Holy Trinity
Haslam was admitted as a member in October 1920.
- A.63 Poetical manual.
- Religious and literary writings
- A.63-A.67 Religious verse, notes on the religious life etc.
- A.63 Exercise book written on front cover 'Bound but not for Absence of books bearing on the religious life.'
- A.64 Manuscript draft for sermon on Epiphany.
- A.65 Poem to be sung by the Medical procession of the Guild of St Luke in St Paul's Cathedral; 'Many of Natural Science'; poem in honour of St Luke.
- A.66 Poem: 'To the pharaohs of ancient Egypt'; 'The Way'; 'Lord of the World'; Responsive prayer.
- A.67 Poem: 'Agnosticism'; 'To D.A.'; 'To the Anglican branch of the Catholic Church'; 'The Song of Praise'; 'The Immortality of Matter'; 'Psalm'.
- Miscellaneous untitled verse and manuscript notes.
- A.68-A.71 Other verse etc.
- A.68 Poem: 'To the Order of Knights Templars'; one dated October 1918; 'On the Chemical Laboratory Cambridge Univ'; 28 December 1918; 'Labor Omnia Vincit'; January 1919; untitled, December 1918 and January 1919; 'Coal tar', March 1919.

Biographical

A.69 Poems: 'The District railway The Power Station, Red Lion Square Kingsbury', May 1919; 'The message [or call] of science', May 1919; 'From the Observatory', June 1919; 'The call of Pan', June 1919; 'Peace 1919', 1 July 1919; 'The Labour Party in Palestine', July 1919; 'A dream', July 1919.

A.70 1922 January - April.

A.70 Undated poems: 'The burden of medical science'; 'The hospital'; 'The bacteriologist's song'; 'In the dissecting-room'; 'In the anatomical department'; 'Traffic'; 'Cui Bono?'; two untitled.

A.71 'Shakespearian Fragment', 4pp manuscript play; 'The Drama. Ancient and Modern', 2pp typescript.

A.82 1923.

Correspondence with parents 1919-1923

A.83 Nil.
Needham's father died on 2 August 1920. Nearly all the correspondence is between Needham and his mother. Needham gives accounts of his daily routines, including his private studies, religious observances, and public and university lectures attended. Visits from his mother and financial concerns of the family also figure in the papers.

CAREER, HONOURS

A.72 1919.
A.84 Grant from Werts Fund for visit to Maine Biological Station, Roscoff, October 1925.

A.73 1920 January - August.
Application for Harrison Memorial Prize, November 1926.

A.74 1920 October. Memorandum, 12 May 1921[?].

A.75 1920 November. Royal Society Smithsonian Research Fellowship, 1930.

A.76 1920 December. Cambridge University, 1932.

Includes accounts of scientific researches and bibliography.

A.77 1921 January - March.

A.87 Letter from A.R. Moore re possible offer of post at Philadelphia, 1932.

Biographical

A.69	Poems: The Darnley railway. The Darnley station. Had Lion House Kilgobry. May 1919. The message (or call) of silence. May 1919. From the Observatory. June 1919. The end of the. June 1919. Poems 1919. 1 July 1919. The Labour Party in Palestine. July 1919. A dream. July 1919.
A.70	United poems: The burden of medical science. The hospital. The bacteriologist's story. In the dissecting-room. In the anatomical department. Tabled. On bones. Two united.
A.71	Shakespearean fragment. The manuscript play. The Game. Ancient and Modern. The typewritten.
A.72	Correspondence with parents 1919-1920
A.73	Neelam's letter dated on 2 August 1920. Nearly all the correspondence is between Neelam and his mother. Neelam gives accounts of his daily courses including his private studies, religious observances, and public and university lectures attended. Visits from his mother and financial concerns of the family also figure in the paper.
A.74	1920 January - August
A.75	1920 October
A.76	1920 November
A.77	1920 December
A.78	1921 January - March

Biographical

- A.78 1921 April - November.
- A.79 1922 January - April.
- A.80 1922 May, July. Includes correspondence *re* visit to Germany. See also H.1A.
- A.81 1922 October - December.
- A.82 1923.
- A.83 Nd.

CAREER, HONOURS AND AWARDS

- A.84 Grant from Worts Fund for visit to Marine Biological Station, Roscoff, October 1925.
- A.85 Application for Harrison Memorial Prize, November 1926.
- A.86 Payment for Demonstrating, 12 May 192[?].
- A.87 Application for Royal Society Smithson Research Fellowship, 1930.
- A.88 Degree of Sc.D., Cambridge University, 1932.
- A.89 Includes accounts of scientific researches and bibliography.
- A.90 Letter from A.R. Moore *re* possible offer of post at Philadelphia, 1932.

Biographical

1921 April - November. Includes correspondence to and from Germany. See also H.1A

1922 January - April

1922 May, July. Includes correspondence to and from Germany. See also H.1A

1922 October - December

1923

1924

CAREER, HONOURS AND AWARDS

Grant from Woods Fund for visit to Marine Biological Station, Woods, October 1922.

Application for Huxton Memorial Prize, November 1922.

Payment for Demonstrating, 12 May 1927.

Application for Royal Society Smithson Research Fellowship, 1930.

Degree of Sc.D., Cambridge University, 1932.

Includes accounts of scientific researches and bibliography.

Letter from A.R. Moore re possible offer of post at Philadelphia, 1932.

J. Neill
NCUA

A.88

A.89

A.89

FAM

A.90

A.90

A.91

A.92

A.93

A.94

A.95

A.96

Biographical

A.88 Readership in Biochemistry, 1936. Cambridge University Graduate Society.
1970.

Draft of letter to ?F.G. Hopkins *re* post of laboratory manager, 2 November
1939.
1972.

A.89-A.93 Election to Fellowship of the Royal Society, 1941. Society, Royal Holloway and
Bedford College, 1884.

A.89 Proposal for Election. Includes Needham's 'Memorandum on scientific work
from 1923 to 1941' and list of publications.

FAMILY

A.90-A.93 Letters of congratulation. 4 folders.

A.97-A.501 Alicia Adelaide Needham (mother)
A.90 A-E.

A.502-A.511 Joseph Needham (father)

A.91 F-L.
A.512-A.515 John W. Montgomery (maternal grandfather)

A.92 M-S.
A.516-A.521 Dorothy Mary Moyle Needham (first wife)

A.93 T-Z, unidentified.
A.522 Lu Gwei-Dyan (second wife)

A.523-A.535 Elizabeth A. Montgomery Wilson (cousin)

A.94 Offer of CBE, 1946.
A.537-A.541 Photographs

Election to Membership, Royal Central Asian Society, 1947.

Alicia Adelaide Needham (mother)

Award of Order of the Brilliant Star with Cravat, 1949.

This was awarded to Needham by the Republic of China 'in recognition of
his constant efforts in promoting good relations between China and Great
Britain'. See also C.42, C.47.

A.95 Invitation to lead Agricultural Research Council research group on
comparative biochemistry, 1951.

A.92	Invitation to lead Agricultural Research Council research group on comparative biochemistry, 1951.
A.93	This was awarded to Needham by the Republic of China in recognition of his constant efforts in promoting good relations between China and Great Britain. See also C.42, C.43.
A.94	Award of Order of the British Star with Clasp, 1949.
A.95	Election to Membership, Royal Central Asian Society, 1947.
A.96	Offer of CBE, 1948.
A.97	T-2, undated.
A.98	M-8.
A.99-A.100	Letters of congratulation, 4 folders.
A.101	Proposal for Election, inclusion of Needham's Memorandum on scientific work from 1923 to 1941 and list of publications.
A.102	Election to Fellowship of the Royal Society, 1941.
A.103	Draft of letter to J. G. Thompson in post of laboratory manager, 2 November 1938.
A.104	Fellowship in Biochemistry, 1938.
A.105	Biographical.

J. Needham
NCUAS 24955

J. Needham
NCUAS

A.96

FAM

Alic

Biographical

A.96

Invitation to become Patron of Cambridge University Graduate Society, 1970.

Invitation to serve as President of British Society for the History of Science, 1972.

Invitation to become Patron of the Needham Society, Royal Holloway and Bedford College, 1984.

FAMILY

A.97-A.601

Alicia Adelaide Needham (mother)

A.602-A.611

Joseph Needham (father)

A.612-A.616

John W. Montgomery (maternal grandfather)

A.617-A.621

Dorothy Mary Moyle Needham (first wife)

A.622

Lu Gwei-Djen (second wife)

A.623-A.636

Elizabeth A. Montgomery Wilson (cousin)

A.637-A.641

Photographs

Alicia Adelaide Needham (mother)

The material presented here was kept by Mrs Alicia Adelaide Needham and passed to Joseph Needham on her death.

Alicia Adelaide Needham (née Montgomery) was born in Ireland in 1863 into a Church of Ireland family in Downpatrick. Alicia Adelaide was an accomplished pianist and had a career as a music teacher. She graduated from the Royal Academy of Music in 1887 and became a Licentiate of the Academy in 1889. In 1892 she married Joseph Needham, a London doctor specialising in anaesthesia. They had one child, Noel Joseph Terence Montgomery Needham, born in 1900.

.../

Montgomery Needham, born in 1900, specialising in anaesthetics. They had one child, Noel Joseph Tennoce Academy in 1989. In 1985 she married Joseph Needham, a London doctor from the Royal Academy of Music in 1957 and became a Licentiate of the accomplished pianist and had a career as a music teacher. She graduated a Church of Ireland family in Downpatrick. Alicia Adelaide was born in Ireland in 1863 into The maternal presented here was kept by Mrs Alicia Adelaide Needham and passed to Joseph Needham on his death.

Alicia Adelaide Needham (mother)

A.837-A.841 Photographs

A.833-A.835 Elizabeth A. Montgomery Wilson (cousin)

A.832 Lu Gwei-Jen (second wife)

A.817-A.821 Dorothy Mary Moyle Needham (first wife)

A.812-A.816 John W. Montgomery (maternal grandfather)

A.802-A.811 Joseph Needham (father)

A.817-A.821 Alicia Adelaide Needham (mother)

FAMILY

Bedford College, 1954.

invitation to become Patron of the Needham Society, Royal Holloway and

1972.

invitation to serve as President of British Society for the History of Science.

1970.

invitation to become Patron of Cambridge University Graduate Society.

Biographical

Biographical

/...

Alicia Adelaide Needham continued to give piano recitals after her marriage and in 1893 she passed the examinations to the Associateship of the Royal College of Music. Although she had composed music before her marriage, some of which was performed, she made her reputation as a composer of songs after her marriage. Her first major success was with 'An Irish Lullaby' and other songs at public performances in 1896. Thereafter she was a prolific song-writer and very many of her compositions were published.

Alicia Adelaide Needham was a frequent prize-winner at 'Feis Ceoil' competitions for music with a Celtic theme. In 1902 she won the Earl of Mar's £100 prize for the best March composed in honour of the Coronation of Edward VII. She was the first woman President of the Royal National Eisteddfod of Wales and during the First World War she became the first woman to conduct at the Royal Albert Hall (the band of the Irish Guards).

The material includes her autobiography 'A Daughter of Music', her diaries covering the period 1879-1924, musical compositions and material relating to her career as pianist and a song-writer, and extensive correspondence 1877-1921, chiefly that of Alicia Adelaide Needham but also including letters of her husband (Joseph Needham). The marriage was not always happy and the marital difficulties are frequently reflected in the diaries and later correspondence.

The material is presented as follows:

A.97, A.98 Autobiographical

A.99-A.135 Diaries

A.136-A.417 Musical career

A.418-A.464 Notes and reflections

A.465-A.596 Correspondence

A.597-A.601 Miscellaneous

A.100

1893. Loose papers enclosed inside front cover.

A.101

1895. Last entry 26 July. Loose papers enclosed.

Biographical

Abbie Adams Heston continued to give piano recitals after her marriage and in 1893 she passed the examination to the Conservatory of the Royal College of Music. Although she had composed much before her marriage, some of which was performed, she made her reputation as a composer of songs after her marriage. Her first major success was with "An Irish Lullaby" and other songs of Irish inspiration in 1895. Thereafter she was a prolific song-writer and very many of her compositions were published.

Abbie Adams Heston was a frequent piano-player at the local competitions for music with a Celtic theme. In 1892 she won the Gold Medal for the best piano composition in honor of the Coronation of Edward VII. She was the first woman President of the Royal Musical Association of Wales and during the First World War she became the first woman to conduct at the Royal Albert Hall (the band of the Irish Guards).

The material includes her autobiography "A Daughter of Music", her diaries covering the period 1879-1904, musical compositions and material relating to her career as pianist and a song-writer, and extensive correspondence 1877-1904, chiefly that of Abbie Adams Heston but also including letters of her husband (Joseph Heston). The marriage was not always happy and the marital difficulties are frequently reflected in the diaries and later correspondence.

The material is presented as follows:

Autobiographical	A.97-A.98
Diaries	A.99-A.100
Musical career	A.101-A.117
Notes and reflections	A.118-A.164
Correspondence	A.165-A.268
Miscellaneous	A.269-A.301

The material is presented in the following order: the diaries, the autobiography, the musical career, the notes and reflections, the correspondence, and the miscellaneous material. The diaries cover the period 1879-1904 and the autobiography covers the period 1877-1904. The musical career is covered by the material A.101-A.117, the notes and reflections by A.118-A.164, the correspondence by A.165-A.268, and the miscellaneous material by A.269-A.301.

Biographical

Autobiographical 27 July

A.97

Alicia Adelaide Needham's autobiography, 'A Daughter of Music'.

122pp typescript, with extensive manuscript corrections and additions.

The autobiography records her life up to 1926 and concludes with an account of her visit to Italy in that year.

A.98

Autobiographical account by Alicia Adelaide Needham in 'M.A.P.' magazine, March 1906, pp.276-277.

Biographical account of Alicia Adelaide Needham by Eitne Ni Peadair in *The Leader* 23 no. 14 (April-May 1916), pp.277-278.

Diaries

A sequence of Alicia Adelaide Needham's private diaries in varying formats. The diaries document family relationships, domestic arrangements, finances, health, emotional states, music, social activities and visits. There are also a number of notebooks used for diary style entries for short periods and particular purposes, such as foreign holidays and family illnesses. A.99 is a condensed chronicle from the diaries she kept in Downpatrick in Ireland before her marriage in 1892.

Many of the diaries are in poor condition and, particularly those from 1917, are bulky with loose papers intercalated or with diary entries pasted or, more usually, pinned into the volumes. Intercalated material may include manuscript notes, entries torn from other (mostly pocket) diaries or written on loose scraps of paper, newspaper cuttings, letters and drafts of letters, and memorabilia.

A.99

Notebook inscribed on first page 'Ada Montgomery Condensed Diary Private Downpatrick' covering the period 1879-1891 and 'The honeymoon with my own Doctor Darling August 1892'.

A.100

1893. Loose papers enclosed inside front cover.

A.101

1895. Last entry 26 July. Loose papers enclosed.

Biographical

- A.102 1895. Used from 27 July.
- A.103 1896. Pasted at front of diary are newspaper reports of death of mother, Mrs J.W. Montgomery, in Downpatrick. Loose papers enclosed.
- A.104 Notebook used for diary of visit to France, August 1897. Loose papers enclosed.
- A.105 1898. Loose papers enclosed.
- A.106 1899. Loose papers enclosed.
- A.107 1900. Notebook used for diary style entries for December [1900] and January 1901. Last entry is for 24 January. Loose papers enclosed including notes dated 2 August 1897 and pages torn from 1901 pocket diary.
- A.108 1901. Used from 25 January. Loose papers enclosed.
- A.109 1903. Loose paper enclosed.
- A.110 1904. Loose papers enclosed.
- A.111 1904. Used March to July only. Brief entries relating to her son, Joseph. Later entries in other hands, probably his nurses'.
- A.112 Foolsap notebook used as 1905 diary.
- A.113 Notebook used for diary entries May to August 1905. Loose papers enclosed.

Biographical

- A.102 1885 - Used from 27 July
- A.103 1885. Printed at foot of day the newspaper reports of death of mother, Mrs J. W. Neetham, in Gwent. Loose papers enclosed.
- A.104 Notebook used for diary of visit to Emsay, August 1887. Loose papers enclosed.
- A.105 1888. Loose papers enclosed.
- A.106 1889. Loose papers enclosed.
- A.107 Notebook used for diary entries for December 1890 and January 1901. Last entry is for 24 January. Loose papers enclosed including notes dated 2 August 1897 and pages from 1891 pocket diary.
- A.108 1901. Used from 25 January. Loose papers enclosed.
- A.109 1903. Loose paper enclosed.
- A.110 1904. Loose papers enclosed.
- A.111 1904. Used March to July only. Brief entries relating to her son, Joseph. Later entries in other hands, probably his nurses. 1905. The notebook.
- A.112 Footscap notebook used as 1905 diary.
- A.113 Notebook used for diary entries May to August 1905. Loose papers enclosed.

Biographical

- A.114 1906. Loose papers enclosed.
- A.115 1910. Loose papers enclosed including 'My diary of Cromer' kept by her son, Joseph, for a few days during visit to Cromer in August, and letter from Lord Castletown, 16 July 1909.
- A.116 Notebook used for diary and notes on visit to Italy, November - December 1910.
- A.117 Notebook used for visit to Italy and France, December 1910 (continuation of preceding). Loose papers enclosed including five letters from friend in Italy, December 1910 - January 1911 (in French).
- A.118 1911. Loose papers enclosed.
- A.119 1912. Loose papers enclosed.
- A.120 1913. Loose papers enclosed.
- A.121 1915. Loose papers enclosed including at front text of agreement between the Needhams about financial arrangements, 31 October 1897.
- A.122 1915. Used occasionally June - September.
- A.123 1916. Loose papers enclosed.
- A.124 1917. Many loose papers enclosed including resolution by her son, Joseph, to maintain strict neutrality in parental disputes, 1 August.
- A.125 1918. Many loose papers enclosed.

Biographical

- A.116 1906. Loose papers enclosed.
- A.115 1910. Loose papers enclosed including 1910 diary of Conrad kept by his son, Joseph, for a few days during visit to Conrad in August, and letter from Lord Castlemore, 16 July 1910.
- A.118 Notebook used for diary and notes on visit to Italy, November - December 1910.
- A.117 Notebook used for visit to Italy and France, December 1910 (continuation of preceding). Loose papers enclosed including five letters from friend in Italy, December 1910 - January 1911 (in French).
- A.116 1911. Loose papers enclosed.
- A.119 1912. Loose papers enclosed.
- A.120 1913. Loose papers enclosed.
- A.121 1915. Loose papers enclosed including at front part of agreement between the Neuman and financial management, 31 October 1917.
- A.122 1915. Used occasionally June - September.
- A.123 1916. Loose papers enclosed.
- A.124 1917. Many loose papers enclosed including resolution by her son, Joseph, to maintain strict neutrality in parental disputes, 1 August.
- A.125 1918. Many loose papers enclosed.

Biographical

- A.126 1918. Very few diary entries before October. Loose papers enclosed, including at front letter from Joseph Needham to his wife, 3 November 1918, written on receipt of telegram from her at Cambridge relating to the health of their son. See A.127.
- A.127 Notebook used for record of progress of son's illness at Gonville and Caius College, Cambridge, [October] - November [1918].
- A.128 1919. At front of diary is brief account of her wartime work for the army. Many loose papers enclosed.
- A.129 1919. Use largely confined to April - July and October. Loose papers enclosed.
- A.130 1920. Many loose papers enclosed, including at front unfinished draft letter to Lloyd George, Prime Minister, *re* reward for Dr Needham 'before it be too late'. The first three pages of the memoranda section of the diary are used for a draft letter on behalf of her husband and herself to Winston Churchill MP, giving account of their services to the army and navy and seeking recognition, dated 16 June 1920.
- A.131 Examination papers, annotated by Alicia Adelaide Needham. Notebook used for record of final days of Joseph Needham, husband, 20 July - 2 August 1920. Most pages not used. Loose papers enclosed at rear.
- A.132 1921. Many loose papers enclosed including at back two letters from Mrs Needham's bank, 26 and 27 May, *re* overdraft.
- A.133 1922. Includes entries for holiday on the continent, accompanied for some of the period by her son (see A.80, H.1A). Many loose papers enclosed.
- A.134 1924. Many loose papers enclosed.
- A.135 Exercise book used for brief diary entries, November - December 1932.

Bibliography

- A.128 1918. Very few diary entries before October. Loose papers enclosed including at least three from Joseph Needham to his wife, 2 November 1918, written on receipt of telegram from her at Cambridge relating to the death of their son. See A.127.
- A.127 Notebook used for record of progress of progress of some disease of Gambia and Guinea, Cambridge, (October) - November (1918).
- A.128 1918. At least of diary is brief account of her wartime work for the army. Many loose papers enclosed.
- A.129 1918. Use largely confined to April - July and October. Loose papers enclosed.
- A.130 1920. Many loose papers enclosed, including at least unfinished draft letter to Lloyd George, Prime Minister, in regard to Dr Needham before 2 Dec 1920. The first three pages of the memorandum section of the diary are used for a draft letter on behalf of her husband and herself to Winston Churchill MP, giving account of their services to the army and navy and seeking recognition, dated 18 June 1920.
- A.131 Notebook used for record of final days of Joseph Needham, husband, 20 July - 2 August 1920. Most pages not used. Loose papers enclosed at rear.
- A.132 1921. Many loose papers enclosed including at least two letters from Mrs Needham's bank, 28 and 27 May, no overall.
- A.133 1922. Includes entries for holiday on the continent, accompanied for some of the period by her son (see A.80, H.1A). Many loose papers enclosed.
- A.134 1924. Many loose papers enclosed.
- A.135 Exercise book used for brief diary entries, November - December 1922.

Biographical

Musical career

Most of the correspondence relating to Alicia Adelaide Needham's musical career as a pianist, composer and examiner is retained with other personal and domestic correspondence at A.465-A.596.

- A.136 Testimonials and references 1884-1889, on Alicia Adelaide Needham's musical and other accomplishments and personal character.
- A.137 'First letter' from A.D. O'Leary, tutor; receipts for fees for study at Royal Academy of Music, London, 1887.
- A.138 Correspondence and papers *re* examinations for Licentiate of Royal Academy of Music, 1888-1889. For letters of congratulation see A.544.
- A.143-A.145 Notification of date of examination for sight-singing examination, Royal Academy of Music, 7 June 1894.
- A.143
- A.139, A.140 Papers *re* Associateship of Royal College of Music, 1893.
- A.139 Examination papers, annotated by Alicia Adelaide Needham.
- A.140 Application to enter for examination; notice of those passing examination; etc.
- A.141, A.142 Performances by Alicia Adelaide Needham.
- A.141 Ulster Minor Hall, Belfast, 4 September 1890.
- Programme: press review.
- Town Hall, Castletown, 13 January 1891.
- Programme: press review.

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Biographical

- Musical career
- Most of the correspondence relating to Alois Adalste Neidham's musical career as a pianist, composer and conductor is retained with other personal and domestic correspondence at A.452-A.535.
- A.136 Testimonials and references 1884-1895, on Alois Adalste Neidham's musical and other accomplishments and personal character.
- A.137 First letter from A.B. Olney, later, trustee for fees for study at Royal Academy of Music, London, 1897.
- A.138 Correspondence and papers in connection with the appointment of Royal Academy of Music, 1895-1899. For letters of congratulation see A.514.
- A.139 Notification of date of examination for eight-kingdom examination, Royal Academy of Music, 7 June 1894.
- A.140 Papers in connection with the appointment of Royal College of Music, 1893.
- A.141 Examination papers, annotated by Alois Adalste Neidham.
- A.142 Application to enter for examination; notice of those passing examination; etc.
- A.143 Performances by Alois Adalste Neidham.
- A.144 Letter from Mr. Hall, Belfast, 4 September 1890.
- A.145 Programme: press review.
- A.146 Town Hall, Castleown, 13 January 1891.
- A.147 Programme: press review.

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- /...145 Cutler's Hall, [?Sheffield], April 1891. London, June 1913.
Programme.
- Lecture Hall, Stamford Street, London, 31 October 1891.
Programme.
- A.142 Royal Academy of Music Fortnightly Concert, 16 June 1894.
Annotated programme.
Clapham Philharmonic Society, 26 March 1896.
Programme.
- A.143-A.145 Performances by others of music by Alicia Adelaide Needham.
A.143 'Olympia' March, Royal Irish Rifles, Downpatrick Amateur Athletic Sports Day, 28 June 1888.
Programme.
A.144 'An Irish Lullaby' and 'The Exile's Return', Albert Hall, London, 17 March 1896.
Press review.
Press notice of performances of 'An Irish Lullaby', 'Maureen' and 'Pastheen Fion', March 1896.
A.144 'Salutation to the Celts' and 'The Irish Lullaby', Pan-Celtic Congress, Caernarvon, 30 August - 3 September 1904.
Programme of Congress, including concerts.
A.150 'And then no more'
Words by James Clarence Mangan.

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- Clara's Hall, Finsbury, April 1891
Programme
- Lecture Hall, Strand, London, 31 October 1891
Programme
- Royal Academy of Music, Finsbury, 18 June 1894
Annotated programme
- Clapham Performance Society, 28 March 1895
Programme
- Performances by others of music by Alice Adelaide Neill
Olympic, March, Royal Irish Rifles, Downpatrick Amateur Athletic Sports
Day, 28 June 1898
Programme
- 'An Irish Lullaby' and 'The Exile's Return', Albert Hall, London, 17 March
1898
Press review
- Press notice of performances of 'An Irish Lullaby', 'Maureen' and 'Partisan
Fion', March 1898
- 'Salutation to the Celts' and 'The Irish Lullaby', Pan-Celtic Congress,
Glasgow, 30 August - 3 September 1904
Programme of Congress, including concerts

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- A.145 'Patriotic Song Cycle', Palladium, London, June 1913.
Press review.
- A.152 'The army and navy of Britain for ever'
Two songs, Rochdale Philharmonic Society, 15 March 1921.
Press review.
- A.153 'As Joseph was a-walking'
- A.146-A.409 Songs.
A.154 'At last'
- A.146-A.350 Words by Individual songs Summer 1898.
- A.351-A.400 Song cycles
A.155 'Auntie's Answer'
- A.401-A.409 Elizabeth Blackwell Instrumental music & Co. 1907.
- A.146-A.350 Individual songs 'marching'
Words by Charles Lever. Dated 71903.
- A.146 'Ambitions'
Words by Frederic Manley.
A.157 'The Daisy sheaves'
Words by Gurly Hadell. Copyright Boosey & Co. 1902.
- A.147 'Among the stubble barley'
Composed for and sung by Madame Clara Butt.
Words by Katherine Tynan Hinkson
- A.158 'Basket-makers'
- A.148 'An ancient lullaby'
Words by E.V. Lucas.
- A.149 'And Ihesus is hys name'
Words from a fifteenth-century manuscript.
- A.150 'And then no more'
Words by James Clarence Mangan.

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A.145	Pathe's Song-Cycle, Pathe's London, June 1913. Press review.
	Two songs, Pathe's Performance Society, 15 March 1917. Press review.
A.146-A.409	Songs. A.146-A.350 Individual songs A.351-A.409 Song cycles A.401-A.409 Instrumental music
A.146-A.350	Individual songs
A.146	'Ambition'
	Words by Frederic Monley.
A.147	'Among the stubble fields'
	Words by Katherine Tynan Harrison
A.148	'An ancient lullaby'
A.149	'And Jesus is thy name'
A.150	'And then no more'

J. Neill
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- A.151 'The apostles' creed'
Words by Phillips Brooks
- A.152 'The army and navy of Britain for ever!'
- A.153 'As Joseph was a-walking'
The birds in the winter
- A.154 'At last'
Sacred Song. Words by Whittier. Dated Summer 1899.
- A.155 'Awake! Awake!'
Words by Elizabeth Birch. Copyright Boosey & Co. 1907.
- A.156 'Bad luck to their marching'
Words by Charles Lever. Dated ?1903.
- A.157 'The barley sheaves'
Words by Gunby Hadath. Copyright Boosey & Co. 1902.
- A.158 'Basket-makers'
Words by E.V. Lucas.
- A.159 'Behave yoursel' afore folk'
Words by Alex Rodger.
- A.159 'Bespattered'

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- A.151 (The apostles' creed)
- A.152 The army and navy of Britain for ever
- A.153 As Joseph was a-wailing
- A.154 At last
- Sacred Song Words by William Ernest Gladstone 1893
- A.155 Awake! Awake!
- Words by Elizabeth Black Copyright Boosey & Co. 1907
- A.156 Bad luck to him marching
- Words by Charles Lamb, Dated 1903
- A.157 The baby shaver
- Words by Gurdy Haddell Copyright Boosey & Co. 1902
- Composed for and sung by Madame Clara Butt
- A.158 Basket-makers
- Words by E.V. Lucas
- Before you're alone folk
- Words by Alex. Rogers
- A.159 Bequeathed

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A.160 'Bethlehem' *cradle hymn*

Words by Phillips Brooks.

A.161 'The bird in the woods'

Words by Isaac Watts.

'The birds in the winter'

A.170 'A bright idea' *song*

A.162 'The brown thrush' *song*

Words by Lucy Larkom.

A.163 'Bumble Bees'

Words by Frederic Manley.

A.164 'A bunch of heather' *hymn*

Copyright Boosey & Co. 1910.

Words by G.M. George. Copyrights Houghton & Co. 1908.

A.165 'The chase'

Words by H. Suso.

A.174 'Come let us adore him' *hymn*

A.166 'Christmas Bells'

Words by Longfellow. *hymn*

A.167 'Christmas carol' *hymn's Prayer*

Words by James Whitcomb Riley. Copyright Boosey & Co. 1902.

Biographical

Bellefontaine

A.160

Words by Philip Brooks

The bird in the woods

A.161

The birds in the winter

A.162

A bright idea

A.163

The brown trout

A.164

Words by Lucy Latham

A.165

Bumble bees

A.166

Words by Frederic Minter

A.167

A bunch of heather

A.168

Copyright Boozey & Co. 1910

A.169

The class

A.170

Words by H. Suvo

A.171

Christmas bells

A.172

Words by Longfellow

A.173

Christmas carol

A.174

Christmas

A.175

Biographical

- A.168 'Christmas cradle hymn'
Words attributed to Martin Luther. Words (translated from the ancient Irish) by Francis A. Fahy. Copyright Ascherberg, Hopwood & Crew Ltd 1909.
- A.169 'Christmas cradle song'
A.177 Words by Isaac Watts.
- A.170 'The Christmas log'
The crowd
- A.171 'Christmas merrymaking'
A.179 Words by George Wither.
Words by M.L.A.
- A.172 'Chums'
A.180 Words by W.M. Hackleton.
- A.173 'Clip, Clap goes the mill'
A.181
- A.181 'Clipped wings' the sergeant
Words by G.M. George. Copyright Houghton & Co. 1908.
- A.182 'Daughters of England'
- A.174 'Come let us adore him' Martin. Copyright Houghton & Co. 1908.
- A.183 'Hymn no.1'
Dear Sir, how sweetly thy green bosom lies
Words by 'Nunc aut nunquam'.
- A.175 'Content (Ike Walton's Prayer)'
Words by James Whitcomb Riley. Copyright Boosey & Co. 1902.
- A.185 'Dolly's funeral'

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Christmas carole hymn	A.166
Words attributed to Martin Luther	
Christmas carole song	A.169
Words by Isaac Watts	
The Christmas tree	A.170
Christmas songbook	A.171
Words by George Wither	
Christmas	A.172
Words by W.M. Hession	
Gift, Gift goes the will	A.173
Gifted wings	
Words by G.M. George. Copyright Houghton & Co. 1908.	
Come let us adore him	A.174
Hymn no. 1	
Words by Thine and undulant	
Content (the Walton's Prayer)	A.175
Words by James Whitcomb Riley. Copyright Boosey & Co. 1902.	

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Biographical

- A.176 'The coolin' *'ing. dream'*
Arrangement of ancient Irish air. Words (translated from the ancient Irish) by Francis A. Fahy. Copyright Ascherberg, Hopwood & Crew Ltd 1909.
- A.177 'The conjurer'
'Eileen Aroon'
- A.178 'Cradle song' of ancient Irish air and words.
- A.179 'The crows'
'The the daylight be gone'
- A.180 'The cuddle place'
'Facts for Irish folk'
Words by M.L.A.
- A.181 'Curly locks'
- A.182 'The daffodil'
'The fairy's lullaby'
- A.183 'The dashing white sergeant'
'Sacred song'. Words by Henry Francis Lyte.
- A.184 'Daughters of England'
'Fighting off'
Words by Margaret A. Martin. Copyright Houghton & Co. 1908.
'Words by Constance Lytton. Copyright Houghton & Co. 1908.'
- A.185 'Dear Erin, how sweetly thy green bosom rises'
'The fishman'
- A.186 'Dolly'
'The fountain'
Words by James Russell Lowell. Dated 20 February 1905.
- A.187 'Dolly's funeral'
- A.188 'Frogs and smiles'

Biographical

A.176	The count	Arrangement of ancient Irish air. Words translated from the ancient Irish by Francis A. Folk. Copyright Houghton, Mifflin & Co. 1908.
A.177	The countess	
A.178	Countess song	
A.179	The countess	
A.180	The countess	
A.181	The countess	
A.182	The countess	
A.183	The countess	
A.184	The countess	
A.185	The countess	
A.186	The countess	
A.187	The countess	
A.188	The countess	
A.189	The countess	
A.190	The countess	
A.191	The countess	
A.192	The countess	
A.193	The countess	
A.194	The countess	
A.195	The countess	
A.196	The countess	
A.197	The countess	
A.198	The countess	
A.199	The countess	
A.200	The countess	

Biographical

- A.186 'Dream, darling, dream' *ballad*
Dated 3 December 1905.
- A.187 'Drinking song' *behind me*
Arrangement of ancient Irish air. Words by Alfred Percival Graves.
'Eileen Aroon' *Boosey & Co. 1900.*
Arrangement of ancient Irish air and words.
- A.188 'Ere the daylight be gone' *ballad*
'A gladsome hymn of praise will sing'
'Facts for little folks'
Hymn. Dated Christmas 1893.
- A.189 'The fairies'
- A.190 'The fairy's lullaby' *Dwyer Joyce. Copyright Boosey & Co. 1900.*
- A.191 'Far from my heavenly home'
Sacred song. Words by Henry Francis Lyte.
- A.192 'Fighting on' *ballad*
Words by Constance Clyde. Copyright Houghton & Co. 1908.
- A.193 'The fireman' *ballad*
- A.194 'The fountain' *ballad*
Words by James Russell Lowell. Dated 20 February 1905.
'The good shepherd'
- A.195 'Frowns and smiles'

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Dated 2 December 1905
- A.187 'Thinking song'
Ellen Aiken
Arrangement of ancient Irish air and words
- A.188 'Ere the daylight be gone'
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- A.189 'The lullaby'
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- A.190 'The lullaby's lullaby'
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- A.191 'Sacred song. Words by Henry Francis Lyte'
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- A.192 'Woods by Constance Clyde. Copyright Houghton & Co. 1908.'
- A.193 'The lullaby'
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- A.194 'The lullaby'
Words by James Russell Lowell. Dated 20 February 1905.
- A.195 'Frown and smile'

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Christmas carol.
Words by Rona White. Dated 26 July 1905.
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Words by W.B. Rands.
- A.198 'Girl of the red mouth'
Words by Martin MacDermott.
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He, she and they
- A.199 'Glenara'
Words by Robert Dwyer Joyce. Copyright Boosey & Co. 1900.
Here's a health unto his majesty
- A.200 'God rest ye merry gentlemen'
Christmas carol.
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Cornish Christmas carol. Words by R.S. Hawker.
- A.201 'Golden bridges'
Words from the German.
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- A.202 'Golden feather'.
Words by J. Logie Robertson.
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- A.203 'Good luck and bad'
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Christmas card.
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Arrangement in colour with the Words by Alfred Tennyson. 1900.
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Words by Martin MacDonagh.
- 'A gladsome hymn of praise we sing'
Hymn, Dublin Christmas 1902.
- A.195 'Gloria'
Words by Robert Dwyer Joyce. Copyright Boosey & Co. 1900.
- A.200 'God rest ye merry gentlemen'
Christmas card.
- A.201 'Golden boughs'
Words from the German. Copyright Boosey & Co. 1900.
- A.202 'Golden festival'
- A.203 'Good luck and bad'
The good shepherd

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- A.204 'Goodnight little maid' *my baby to play?*
Words by Rona White. Dated 26 July 1905.
- A.213 'Great golden sun' *our Jesus*
Words by Rona White. Dated 26 July 1905.
- A.205 'Great, wide, beautiful wonderful world' *October 1904*
Words by W.B. Rands.
- A.214 'I think when I read that sweet story of old'
- A.206 'Green sprigs'
Words by Augusta Hancock. *With me*
- A.207 'He, she and they' *upper plack*
Words by Mary A. Barr.
- A.208 'Help yourself'
- A.217 'If I were a fish'
- A.209 'Here's a health unto his majesty'
- A.210 'The holly' *trump*
Cornish Christmas carol. Words by R.S. Hawker.
- A.219 'If I were a fish'
- A.211 'Hope or a winter's view'
Words by J. Logie Robertson.
- A.220 'If thoughts were birds'
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Words by E.V. Lucas.
- A.221 'The blade of grass'
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- A.212 'How many days has my baby to play?'
Words by Norman MacLeod.
'I need thee, precious Jesus'
- A.213 'In a wooden cradle'
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- A.214 'I think when I read that sweet story of old'
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- A.215 'I walk with God, he walks with me'
A.224 'In my dreams'
- A.216 'I wouldna gie a copper plack'
Words by Mary A Barr.
Copyright Boosey & Co. 1902.
- A.217 'If'
Christmas carol.
Words by Morley Roberts.
'In the evening'
- A.218 'If and perhaps'
Words by Eudora S. Burnstead.
- A.219 'If I were a fish'
Words by Francis A. Fahy. Copyright Pigott & Co. 1910.
Words by S.A.G.
- A.220 'If thoughts were birds'
Dated July 1909.
An Irish lullaby
- A.221 'Ilka blade of grass'
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I need these precious hours

A.213

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I walk with God, he walks with me

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'If thoughts were birds'

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- A.222 'I'm a merry, merry squirrel'
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- A.223 'In a wooden cradle'
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Words by E. Searchfield.
'Dedicated to my little soldier Terence.'
- A.224 'In my dreams'
Words by Pakenham Thomas Beatty. Copyright Boosey & Co. 1902.
- A.225 'In the fields with their flocks abiding'
Christmas carol.
'In the swing'
Words by Eudora S. Bumstead.
'Kind, beautiful wonderful God'
- A.226 'Irish cradle song'
Words by Francis A. Fahy. Copyright Pigott & Co. 1910.
Words by T.C. Lallo.
- A.227 'Irish education'
- A.228 'An Irish lullaby'
Full score. Words by Francis A. Fahy, orchestrated by John Storer.

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- A.225 In a merry, merry season.
Words by Norman Macdonald.
- A.226 In a wooden castle.
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- A.23 In defence of his country.
Words by E. Seaworth.
- A.23 Dedicated to my little Tennyson.
In my dreams.
- A.234 Words by Frederick Thomas Bailey. Copyright Boosey & Co. 1902.
- A.235 In the fields with their flocks abiding.
Christmas card.
- A.236 In the swing.
Words by Eudora S. Burnstead.
- A.237 'In the cradle song'.
Words by Francis A. Fay. Copyright Piggot & Co. 1910.
- A.237 'In the education'.
An Irish lullaby.
- A.238 Full score. Words by Francis A. Fay, orchestrated by John Storer.

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- A.229 'The iron horse' *"Soldier, soldier dear unknown"*
Dated 8 July 1905. *Gambry*. Dated 12 February 1915.
Dedicated to the British Expeditionary Force and Britain's allies.
- A.230 It's no very lang sin syne'
A.238 Stamped Boosey & Co. 11 January 1910.
- A.231 'A jack o'tar' *yard*
- A.232 'The jolly ploughboy'
Arrangement. *Houghton*.
- A.241 'Keep a watch on your words my darlings'
Land of our fathers
Arrangement. Words by Alfred Percival Graves.
- A.233 'Keep pegging away'
Dedicated to all our pen-crafts
Words by Rev. Canon Langridge.
- A.242 *Land of the Counterpane*
- A.234 'The key to the box'
Words by Robert Louis Stevenson. See also A.284.
- 'Kind, beautiful wonderful God'
- A.243 'The lapful of nuts'
- A.235 'The kiss ahint the door' *guson*. Copyright Boosey & Co 1912.
Words by T.C. Latto.
- A.244 'Laugh it off'
- A.236 'Kittens' *Henry Rutherford Elliot*
Words by Betty Sage.
- A.245 'The limitations of youth'
Words by Eugene Field. Dated 3 February 1902.

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- A.237 'Knitting war song "Soldier, soldier dear unknown" '
Words by Adrienne Cambry. Dated 12 February 1915.
Dedicated to the British Expeditionary Force and Britain's allies.
'A little bird'
- A.238 'Knowest thou God for thy father?'
A.247 'The little boy and the stars'
- A.239 'Ladybird, ladybird'
A.248 'A little cradle song'
- A.240 'Lady Moon'
Christmas card. Words from the Spanish.
Words by Lord Houghton.
A.248 'The little drummer'
- A.241 'Land of our fathers'
Words by Gouverneur Morris. Copyright Boosey & Co. 1898.
Arrangement. Words by Alfred Percival Graves.
A.250 'Little Pol pollo'
- A.242 'Land of the Counterpane'
Words by Robert Louis Stevenson. See also A.284.
A.251 'Little soldiers'
- A.243 'The lapful of nuts'
A.252 'The lobster and the cat'
Words by Sir Samuel Ferguson. Copyright Boosey & Co 1912.
Words by Felix Leigh.
- A.244 'Laugh it off'
A.252 'Look up the street'
- A.245 'The limitations of youth'
A.253 'Lord of our far-flung battle-line'
- Words by Henry Rutherford Elliot.
Words by Rudyard Kipling.
Words by Eugene Field. Dated 3 February 1902.

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- A.237 Telling you song "Sister, sister dear, listen!"
Words by Aileen Gentry. Dated 15 February 1912.
Dedicated to the British Expeditionary Force and Britain's allies.
- A.238 Foremost thou God for thy father!
"Lachrymose, lachrymose!"
- A.239 "Lady Ellen!"
Words by Lord Houghton
- A.241 "Land of our fathers!"
Arrangement. Words by Alfred Percival Graves.
Dedicated to all our own-alls.
"Land of the Courtesans!"
- A.242 Words by Robert Louis Stevenson. See also A.284.
- A.243 "The light of day!"
Words by Sir Samuel Ferguson. Copyright Bodsey & Co 1912.
- A.244 "Laugh it off!"
Words by Henry Richardson Elliot.
- A.245 "The limitations of youth!"
Words by Eugene Field. Dated 3 February 1902.

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- A.246 'Listen, lordlings unto me'
Carol for Christmas Eve.
- A.247 'The little boy and the stars'
(From the Water Babies) Charles Kingsley.
- A.248 'A little cradle song'
Christmas carol. Words from the Spanish.
Words by Michael Scanlon. Dated 23 January 1905.
- A.249 'The little drummer'
Words by Gouverneur Morris. Copyright Boosey & Co. 1906.
Christmas carol.
- A.250 'Little Poll parrot'
'Little shoes'
Words by Theodore Botrel.
- A.251 'Little soldiers'.
Words by John Russell.
'The lobster and the can'
Words by Felix Leigh.
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- A.252 'Look up the street'
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A.248	Letten, looking into the Copyright Christmas Eve
A.247	A little bird The little boy and the star
A.246	A little candle song Christmas card. Words from the Spectator
A.245	The little drummer Words by Gouverneur Morris. Copyright Boosey & Co. 1906.
A.250	'Little Pol' parrot 'Little shoes'
A.251	Words by Theodore Butler 'Little soldiers'
A.252	'The lobster and the can' Words by Felix Leigh
A.253	'Look up the street' 'Lent of our far-flung battle-line' Words by Rudyard Kipling

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- A.254 'The Lord's Prayer'
Words by Patrick Byrne. Copyright Boosey & Co. 1912.
- A.255 'The lost boy'
Words by Ellen Manly.
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(From the Water Babies) Charles Kingsley .

'Love song of Elizabethan days'
'The moon shone bright'
Words by Michael Scanlon. Dated 23 January 1905.
Christmas carol.
- A.257 'A lovely lady sat and sang'
'Mr Nobody'
Christmas carol.
Words by E. Snowden.
- A.258 'Making cakes'
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Words by Norman Gale. Dated 2 September 1911.
- A.259 'Marching on'
Words by John Russell.
- A.260 'A merry, merry Christmas'
Words by Robert Herrick.
- A.261 'My little secret'
- A.262 'La meunière' A.D.
Words by Theodore Botrel. Copyright Boosey & Co. 1906.
'My mother tongue'

Words by David Gerd. Copyright Boosey & Co. 1910.

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- Words by Ellen Monaghan
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- (From the *Walter Bishop's Christmas Hymns*)
- Love song of Elizabethan days
- Words by Michael Scanlon. Dated 23 January 1905.
- A.257 'A lovely lady sat and sang'
- Christmas Carol
- 'Merry carols'
- A.258 'Merry carols'
- Marching on
- Words by John Russell
- 'A merry, merry Christmas'
- Words by Robert Herrick
- A.259 'A merry, merry Christmas'
- Words by Theodore Butler. Copyright Goosey & Co. 1905.

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- A.261 'The milestone' *so bedraggled with the wet*
Words by Patrick Byrne. Copyright Boosey & Co. 1912.
- A.262 'The mill' *J. Lee*
- A.263 'Miss Maria (The sewing-woman)'
Words by Betty Sage.
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- A.264 'The moon shone bright'
Christmas carol.
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- A.265 'Mr Nobody'
Words by E. Snowden.
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- 'Mustard and cress' *A. Proctor*
Words by Norman Gale. Dated 2 September 1911.
- A.266 'My ain hoose'
On yesternight I saw a sight
- A.267 'My heart's delight'
Christmas carol.
Words by E. Nesbitt. Copyright Boosey & Co. 1902.
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- A.268 'My little secret'
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Words by A.M.R.D.
- A.277 'My mither tongue'
Words by David Grant. Copyright Boosey & Co. 1910.

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- A.261 The milestone
Words by Frank Blynn. Copyright Boosey & Co. 1912.
- A.262 The mill
- A.263 Miss Marn (The sewing-woman)
Words by Betty Sage.
- A.264 The moon shone bright
Christmas carol.
- A.265 It's nobody's
Words by E. Snowden.
- A.266 Husband and crew
Words by Norman Gale. Dated 2 September 1911.
- A.267 My ain hoose
My heart's delight
- A.268 Words by E. Needham. Copyright Boosey & Co. 1905.
- A.269 My little secret
Words by A.M.R.D.
- A.270 My miller tongue
Words by David Grant. Copyright Boosey & Co. 1910.

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A.269 'My wings were so bedraggled with the wet'

Words by E.V. Lubbock.

A.270 'Nail your colours to the mast'

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Words by J. Lea.

Words by H. MacNaughton-Jones.

A.271 'The nest'

A.272 'Out over the Forth'

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Words by Queenie Scott-Harper.

A.280 'Parades, lilacs, roses'

A.272 'The new moon' Dated December 1893.

Words by A. Follen.

A.281 'Peace and goodwill'

A.273 'Now! Now! Now!'

'Peace be around thee'

Words by Adelaide A. Proctor.

Words by Thomas Moore.

A.274 'Now the day is over'

A.282 'Perpetual Christmas in thy soul'

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Christmas carol.

'Piggle-wig, and Piggle-wag'

A.275 'One and two'

A.283 'Pity-pat and Giddy-go'

Words by Eugene Field. Copyright Boosey & Co. 1901.

A.276 'One at a time'

A.284 'The pleasant land of counterpane'

A.277 'One nest together'

Words by Robert Louis Stevenson. See also A.242.

Words by Christina Rossetti.

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A.289	My wings were so burdened with the weight of the world that I could not fly.
A.290	Find your comfort in the night. Words by J. Lee.
A.291	The heart A heart of stone. Words by Quaker Scott-Hopewell.
A.292	The new moon Words by A. Follen.
A.293	How! How! How! Words by Adelaide A. Proctor.
A.294	How the day is over, On yesternight I saw a sight. Christmas carol.
A.295	One and two, One at a time, One next together.
A.296	Words by Christina Rossetti.

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- A.278 'Our bank'
Words by E.V. Lucas.
- A.279 'Our student days'
Words by H. MacNaughton-Jones.
- A.279 'Out over the Forth'
Words by Robert Burns.
- A.280 'Pansies, lilies, roses'
Hymn for children. Dated December 1893.
- A.281 'Peace and goodwill'
Words by Katherine Tynan Hinkson.
- A.281 'Peace be around thee'
Words by Thomas Moore.
- A.282 'Perpetual Christmas in thy soul'
Words by Lucy A. Bennett.
- A.282 'Piggie-wig, and Piggie-wee'
- A.283 'Pitty-pat and tippy-toe'
Words by Eugene Field. Copyright Boosey & Co. 1901.
- A.284 'The pleasant land of counterpane'
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Our bank	A.278	A.28
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Words by Bret Harris.

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'The post office or a stamp'

Words by Henry Scott Russell.

'A prayer'

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Words by James Whitcomb Riley.

Words by James Whitcomb Riley.

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'Queer relations' like boy-blue.

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'The red deer' for right unfolds thee.

Words by Katherine Tynan Hinkson.

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'Riflemen, form' on the coast.

Singing solemnly.

Words by Lord Tennyson.

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'The robin'.

Words by Rickman Marks.

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'The rock-a-bye lady'

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Words by Eugene Field.

Waltz song. Words by C. H. St. L. Russell.

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'Saw ye him whom my soul loveth saw ye him?'

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'Scarlet and gold' from the German by Francis A. Fahy.

Words by May Byron.

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'The spider and his wife'

Waltz song. Words by C. H. St. L. Russell.

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- A.293 'Scotch lines to A.S.B. (from an unintelligent foreigner)'
Words by Bret Harte. Tynan Hinkson. Dated Sunday 7 December 1902.
- A.294 'Scotland yet'
Words by Henry Scott Riddell.
'Spring song'
Words by Marcia Tyndale.
- A.295 'A sea-song'
Words by James Whitcomb Riley.
A.304 'A ship's cup song'
Dedicated 'to my little boy-blue'.
- A.296 'Serenade "Eager night enfolds thee" '
Words by Tennyson.
- A.297 'Seven times one' weather'
Words by Katherine Tynan Hinkson.
'Singing merrily'
- A.298 'Snow (in town)'
Words by Katherine Tynan Hinkson.
Words by Rickman Marks.
- A.299 'Softest love, I do not go for weariness of thee'
Words by John Donne. Copyright in the US Black and White Publishing Co.
Waltz song. Words by C. H. St. L. Russell.
- A.300 'The sparrows'
Words translated from the German by Francis A. Fahy.
- A.301 'The spider and his wife'
Cradle song. Copyright by Alicia Adelaide Needham 1907.

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Words by Edith Hahn
- Scottish yet
Words by Henry Scott Russell
- A song
Words by James Whitcomb Riley
Dedicated to my little boy-blue
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The song of the "Eager night enlists thee"
- Seven times one
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- Snow (in town)
Words by Richard M. M. M.
- The song of the "Snow (in town)"
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- The sparrow
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- A.302 'Spinning song Nance O'Neill'
Words by Katherine Tynan Hinkson. Dated Sunday 7 December 1902.
- A.303 'Spring song'
There was a knight of Bethlehem
'Spring song'
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Words by Marcia Tyndale.
- A.304 'A stirrup cup song'
Words by Longfellow.
- A.305 'Sweet and low' birds
Words by Tennyson.
- A.306 'The sweet May weather'
The sun in storm and shine
Words by Katherine Tynan Hinkson. Dated 14-15 February 1902.
Words by Katherine Tynan Hinkson.
- A.307 'Sweetest love, I do not go for weariness of thee'
Words by John Donne. Copyright in the US Black and White Publishing Co. 1905.
Words by 'Cruck-a-Leaghan'
Dedicated to Mrs Benachie (née Mendelssohn-Bartholdy).
- A.308 'The swing'
Words by Robert Louis Stevenson.
To set the world rejoicing
- A.317 'Swinging and swaying'
Cradle song. Copyright by Alicia Adelaide Needham 1907.

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- A.309 'Sympathy'
- A.310 'The trees or Spring song'
'There is joy in heaven'
Words by E. Nesbit.
- A.311 'There was a knight of Bethlehem'
Trumpets and drum
Christmas carol.
Cradle song. Words by Sir Walter Scott.
- A.312 'There was a little girl'
Words by Longfellow.
- A.320 'The two dollars'
'There were two birds'
Words by L.E. Tiddeman.
- A.313 'Thine in storm and shine'
The two Journeys or two different little boys
Words by Katherine Tynan Hinkson. Dated 14-15 February 1902.
Dated 11 October 1910.
- A.314 'Tit for tat'
Under-the-table manners
'To let - a little lonely heart'
Copyright G.Ricardi & Co. 1921.
- A.315 'Very tired'
'To my fair colleen'
Words by H.P. Jenkins
Words by 'Cruck-a-Leaghan'
Dedicated to Mrs Benecke (née Mendelssohn-Bartholdy).
- A.324 'The virgin & child'
Christmas carol
- A.316 'To set the world rejoicing'
- A.325 'The virgin's cradle hymn'
A.317 'To the unknown many'
Christmas carol.

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A.309	Swampy	
A.310	There is joy in heaven	
A.311	There was a light at Bethlehem	
A.312	There was a little girl	
A.313	There were two birds	
A.314	There is storm and stress	
A.315	There is a little lonely heart	
A.316	To my fair cousin	
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Biographical

- A.318 'Tortoise shell'
Words by Helen H. Whitney.
'The trees or Spring song'
Words by E. Nesbit.
A.327 'Waiting for the May'
Words by Florence McCarthy.
A.319 'Trumpets and drum'
Cradle song. Words by Sir Walter Scott.
A.328 'Waking up'
'Twitter and cheep' Anderson.
A.320 'The two dollies'
Words by L.E. Tiddiman.
A.330 'The wandering knight's song'
A.321 'The two Johnnies or two different little boys' & Co. 1902.
Dated 11 October 1910.
A.331 'Washing the dishes'
A.322 'Under-the-table manners'
A.332 'The watchmaker'
A.323 'Up at Piccadilly, oh!'
Words by E. V. Lucas.
'Very tired'
A.332 Words by H.P. Hawkins.
Words by Mrs Hawkeshaw.
A.324 'The virgin & child'
A.333 Christmas carol.
Words by Ella Wheeler Wilcox. Dated July 1903.
A.325 'The virgin's cradle hymn'
Christmas carol.

Biographical

- A.326 'Visitors' *'Visitors'*
Words by Helen H. Whitney.
- A.327 'Waiting for the May' *'Waiting for the May'*
Words by Florence McCarthy.
'What I learnt'
- A.328 'Waking up' *'Waking up'*
Words by Alexander Anderson.
'What my lover said'
- A.329 'Wander-thirst' *'Wander-thirst'*
'What the clock says'
- A.330 'The wandering knight's song' *'The wandering knight's song'*
Words from the Spanish. Copyright Boosey & Co. 1902.
'What the flowers said'
- A.331 'Washing the dishes' *'Washing the dishes'*
Words by Hannah G. Fernald.
'When I'm a grown-up lady'
- A.332 'The waves on the seashore' *'The waves on the seashore'*
Words by Mrs Hawkshawe.
'When in death I shall calm recline'
'Which way does the wind blow?'
- A.333 'The way of the world' *'The way of the world'*
Words by Ella Wheeler Wilcox. Dated July 1903.
'White bread and brown bread'

Biographical

A.332	Words by Helen H. Whitney.	Whitney
A.337	Words by Florence MacCarthy.	Waiting for the May
A.338	Words by Alexander Anderson.	Waiting up
A.339	Words by Alexander Anderson.	Waiting up
A.340	Words by Alexander Anderson.	Waiting up
A.341	Words by Alexander Anderson.	Waiting up
A.342	Words by Alexander Anderson.	Waiting up
A.343	Words by Alexander Anderson.	Waiting up
A.344	Words by Alexander Anderson.	Waiting up
A.345	Words by Alexander Anderson.	Waiting up
A.346	Words by Alexander Anderson.	Waiting up
A.347	Words by Alexander Anderson.	Waiting up
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A.396	Words by Alexander Anderson.	Waiting up
A.397	Words by Alexander Anderson.	Waiting up
A.398	Words by Alexander Anderson.	Waiting up
A.399	Words by Alexander Anderson.	Waiting up
A.400	Words by Alexander Anderson.	Waiting up

Biographical

- A.334 'Wee Willie Winkie'
Copyright Boosey & Co. 1910.
- A.335 'What are little boys made of?'

A.344 'What I learn'
Wynken, Blynken and Nod
Words by Constance M. Lowe.
Words by Eugene Field. Dated May 1920.
- A.336 'What my lover said'
A.345 'Ye bargees'
Words by Horace Greeley.
Copyright G. Ricordi & Co. 1921.
- A.337 'What the clock says'
A.346 'Young birds'
Words by E. Smedley.
- A.338 'What the flowers said'
- A.347 'Your father's house'
- A.339 'When I'm a grown-up lady'
Copyright Dr Joseph Needham 1937.
- 'When in death I shall calm recline'
A.348 Arrangement of ancient Irish air. Words by Thomas Moore. Dated 13 September 1933.
- A.349, A.350 Miscellaneous shorter pieces. Principally children's and nursery songs. 2
- A.340 'Which'
- 'Which way does the wind blow?'
- A.351-A.400 Word by Lucy Aikin.
- A.351-A.359 Army and Navy song cycle for four voices.
- A.341 'White bread and brown bread'
Orchestrated by Callan Keltz. Copyright Boosey & Co. 1912.
- 3 folders

Biographical

What Wise Wink?	A.334
Copyright: Gosses & Co. 1919	
What are little boys made of?	A.335
What I want?	
Words by Constantine M. Low	
What my love said	A.336
Words by Louise Clavel	
What the clock says	A.337
What the flowers said	A.338
When I'm a grown-up lady	A.339
When in death I shall calm rest	
Arrangement of ancient Irish air. Words by Thomas Moore. Dated 13 September 1932	
Which?	A.340
Which way does the wind blow?	
Word by Lucy Allen	
White bread and brown bread	A.341

A.342

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Biographical

- A.342 A.363 'Wishing' song cycle
Words by William Allingham.
- A.343 A.369 'With all your might' voices.
List of twelve songs (one crossed out) and music and words for ten of the remaining eleven listed songs.
- A.344 - 'Wynken, blynken and nod'
6 folders.
Words by Eugene Field. Dated May 1920.
- A.370
A.345 'Ye bargayne'
List only of twelve songs. Not identical to the preceding.
Copyright G. Ricardi & Co. 1921.
- A.371, A.372
A.346 Four trills for ladies voices.
'Young birds'
2 folders.
Words by E. Snowden.
- A.373
A.347 Three sacred songs.
'Your father's boreen'
Copyright Boosey & Co. 1903.
Copyright Dr Joseph Needham 1897.
Two copies.
- A.348
A.374, A.375 Untitled and incomplete.
Ten sacred songs.
- A.349, A.350 List of ten songs with music and words for three of them.
Miscellaneous shorter pieces. Principally children's and nursery songs. 2 folders.
Dedicated to my son Doctor Joseph Needham Sc.D. M.A. Ph.D. Fellow of Caius Coll. Cambridge.
- A.351
A.351-A.400 Song collections
- A.376-A.378
A.351-A.359 Six old English songs.
Army and Navy song cycle for four voices.
3 folders.
Orchestrated by Cellan Kottaun. Copyright Boosey & Co. 1912.
9 folders.

Biographical

- A.360-A.363 Scottish song cycle folder so inscribed: manuscripts of songs composed for Irish song festival.
4 folders.
Dated December 1893.
- A.364-A.369 Song cycle for four voices.
List of twelve songs (one crossed out) and music and words for ten of the remaining eleven listed songs.
6 folders.
Hymns for children.
Dated 1893.
- A.370 Song cycle for four voices.
List only of twelve songs. Not identical to the preceding.
Songs for children.
List of twelve songs and words and music of ten of them.
- A.371, A.372 Four trios for ladies voices.
4 folders.
2 folders.
- A.373 French songs for children.
Three sacred songs.
List and words and music for ten songs.
Copyright Boosey & Co. 1903.
5 folders.
Two copies.
- A.374, A.375 Twenty songs.
Ten sacred songs.
List and words and music of the first seventeen songs.
List of ten songs with music and words for three of them.
3 folders.
Dedicated 'to my son Doctor Joseph Needham Sc.D. M.A.. Ph.D. Fellow of Caius Coll. Cambridge.'
- A.400 contents of published volumes of songs: 'Three volumes very easy for children'; '5 volumes, songs for children'; '3 duets for ladies voices'; 'Good night songs'; 'Songs for grownups'.
- A.376-A.378 Six old English songs.
3 folders.

Biographical

- A.369-A.373 Scottish song cycle
4 folders
- A.374-A.389 Song cycle for four voices
List of twelve songs (five crossed out) and music and words for ten of the
remaining eleven listed songs
6 folders
- A.370 Song cycle for four voices
List only of twelve songs. Not identical to the preceding
- A.371, A.372 Four stanzas for ladies voices
2 folders
- A.373 Three sacred songs
Copyright Bessie & Co. 1903
Two copies
- A.374, A.375 Ten sacred songs
List of ten songs with music and words for three of them.
Dedicated to my son Doctor Joseph Neale Sc.D. M.A. Ph.D. Fellow of
Culver College, Cambridge
2 folders
- A.376-A.378 Six old English songs
3 folders

Biographical

- A.379 A.409 'Feis'. Contents of folder so inscribed: manuscripts of songs composed for ?Irish song festival.
A.401 Dated December 1898.
A.402 'Copied' 1891.
A.380 Four Irish songs.
A.402 List only.
A.402 'Work in free Sach style'
A.381 Dated in November 1897, February 1898.
Hymns for children.
A.403 Dated 1893.
A.403 Manuscript music book containing Irish airs, reels. Letter pasted inside front cover dated 1 June 1899.
A.382-A.385 Songs for children.
A.404 List of twelve songs and words and music of ten of them.
A.386-A.390 4 folders. February 1902.
A.386-A.390 French songs for children.
A.406 List and words and music for ten songs.
A.391-A.399 5 folders.
A.407 'Clips'
Twenty songs.
A.407 List and words and music of the first nineteen songs.
A.407 9 folders.
A.400 Lists of contents of published volumes of songs: 'Three volumes very easy for children'; '5 volumes, songs for children'; '3 duets for ladies voices'; 'Good night songs'; 'Songs for grownups'.
A.408
A.409 Unfilled and incomplete.

Biographical

- A.401-A.409 Instrumental music
- A.401 'Duet in canon' *by E. Friedr. Richter's Harmonielehre by A. Richter (Leipzig 1893) annotated by Alicia Adelaide Needham.*
'Copied' 1891.
- A.402 *Calendars for Royal Academy of Music, 1893-1894, 1894-1895.*
'Work in free Bach style'
Dated in November 1897, February 1898.
- A.403 *Student's Concert Tickets for Royal Academy of Music, 1887, 1893-1895.*
Manuscript music book containing Irish airs, reels. Letter pasted inside front cover dated 1 June 1899.
- A.404 'Arrangement of Irish airs ... for the Harp'
Dated 27 February 1902.
- A.405 *Programmes of concerts attended etc. 2 folders.*
'Lament for violin and pianoforte'
- A.406 *Royalty account from Society & Co., January - June 1916.*
'Berceuse'
'Gigue' and reflections
- A.407 *Alicia Adelaide Needham's manuscript notes on books read, including literary and religious and philosophical literature, and notes on similar themes. She may have planned to write a reflective book on religious themes, possibly drawing on her own experiences and thoughts. The notes date from after the First World War, perhaps after the death of her husband in 1920.*
'Nocturne'
'Invitation to the dance'
- A.408 *Unless otherwise indicated the notes are in Alicia Adelaide Needham's exercise books. However, some have had pages removed, and many were used only for a few pages and not always from the front. A number lack their covers. There are also loose manuscript notes, some on pages torn from similar exercise books.*
'In C'
- A.409 Untitled and incomplete.

A.418-A.421

Four exercise books used for notes on 'Books read'.

Biographical

- A.410-A.417 Miscellaneous material
- A.410 *Aufgabenbuch zu E. Friedr. Richter's Harmonielehre* by A. Richter (Leipzig 1892), annotated by Alicia Adelaide Needham. George Sand by Elsie (?) Schenck-Horn, Hainemann.
- A.411 Calendars for Royal Academy of Music, 1893-1894, 1894-1895.
Used for notes on biography of Byron by Brocknock (Cecil Palmer) [...].
- A.412 Student's Concert Tickets for Royal Academy of Music, 1887, 1893-1895.
Used for notes on biographies of Leo Tolstoy, Lord Kitchener.
- A.413 Examination papers for Licentiate'ship of Royal Academy of Music 1890-1893.
for notes on *The Tragedy of Russia* by Amabel Williams Ellis [...].
- A.414 Manuscript timetables for music practice or tuition 1893, 1894, 1896 and nd.
- A.415, A.416 Programmes of concerts attended etc. 2 folders.
- A.417 Royalty account from Boosey & Co., January - June 1916. by Byron.
- A.418 **Notes and reflections** biographies of Tolstoy, Beethoven and W.S. Gilbert.
- A.419 Alicia Adelaide Needham's manuscript notes on books read, including biographies and religious and philosophical literature, and notes on similar themes. She may have planned to write a reflective book on religious themes, possibly drawing on her own experiences and thoughts. The material appears to date from after the First World War, perhaps after the death of her husband in 1920.
- A.420 Used for notes on Ernst Renan, biographies of General Gordon and
- A.421 Unless otherwise indicated the notes are in Alicia Adelaide Needham's exercise books. However, some have had pages removed, and many were used only for a few pages and not always from the front. A number lack their covers. There are also loose manuscript notes, some on pages torn from similar exercise books. and biography of 'The Two Carlyles'.
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A410-A417	Miscellaneous material
A410	Autograph in E. Frank. Richard's translation by A. Richter (Japan 1922), annotated by Alice Adelaide Neetham.
A411	Calendar for Royal Academy of Music, 1893-1894, 1894-1895.
A412	Student's Concert Tickets for Royal Academy of Music, 1887, 1893-1895.
A413	Examination papers for University of Royal Academy of Music 1890-1895.
A414	Manuscript materials for music practice or tuition 1893, 1894, 1896 and not.
A415, A416	Programmes of concerts attended etc. 2 folders.
A417	Profly account from Boosey & Co., January - June 1918.
A418-A421	Notes and reflections
A418-A421	<p>Unless otherwise indicated the notes are in Alice Adelaide Neetham's exercise books. However, some have had pages removed, and many were used only for a few pages and not always from the front. A number lack their covers. There are also loose manuscript notes, some on pages torn from similar exercise books.</p> <p>Alice Adelaide Neetham's manuscript notes on books read, including biographies and religious and philosophical literature, and notes on similar themes. She may have planned to write a reflective book on religious themes, possibly drawing on her own experiences and thoughts. The material appears to date from after the First World War, perhaps after the death of her husband in 1920.</p>
A418-A421	Four exercise books used for notes on books read.

Biographical

- A.422 Used for 'Notes from books'.
- A.423 Used for notes on 'The 7 strings of the lyre' George Sand by Elizth [?]Schennerhorn. Heinemann'.
- A.424 Used for notes on biography of 'Byron by Brecknock (Cecil Palmer) [...]'.
Used for notes on 'Blavatsky + Gounod'.
- A.425 Used for notes on biographies of 'Leo Tolstoy Lord Kitchener'.
Used for notes 'From Climax of Ages' and on books by Sir Oliver Lodge and
- A.426 Used for notes on 'The Tragedy of Ruskin by Amabel Williams Ellis [...]'.
Used for notes on 'Eleanor Duse by Rheinhardt (Martin Secker)'.
- A.428 Used for notes on biography of Mozart.
Used for notes on biography of Mozart.
- A.429 Used for notes on biographies of Prince ?Lichnosky and Lady Byron.
- A.430 A.444 Used for notes on biographies of Tolstoy, Blavatsky and W.S. Gilbert.
- A.431 A.443 Includes notes on 'Hydriation, King Edward VII's illness, and notes on books
Used for notes on Woodrow Wilson, wartime reminiscences of Colonel House and biography of Schubert.
- A.432 A.444 Notes on 'My Life & Times' by Jerome K. Jerome and 'Goodbye to all that'
Used for notes on Ernest Renan, biographies of General Gordon and Abraham Lincoln, and work of R.H. Benson.
- A.433 A.445 Used for notes on 'Diary A.B. Benson My dreams'.
Used for notes on life of Christ and biography of 'The Two Carlyles'.
- A.434 A.446 Used for notes on 'Dreams + Parry R.L. Stevenson'.
Used for notes on 'The Hand [palmistry] The Story of Christ Plato'.

Biographical

- A.435 Used for notes on 'Lectures'.
- A.436 Used for notes on works of T.E. Lawrence (of Arabia).
- A.437 Used for notes on 'Blavatsky + Gounod'.
- A.438 Used for notes 'From Climax of Ages' and on books by Sir Oliver Lodge and Maude Royden.
- A.439 Used for notes on meanings of Biblical passages and records of dreams.
Used for notes on poetry of Robert Browning, work of G.K. Chesterton.
- A.440 Used for notes on body and spirit and on 'Lecture on Egypt'.
Pocket notebook used for notes on the religious life, especially the hereafter.
- A.441 Used for notes on the supernatural power etc of the monks, and life of
Used for notes on 'Adventure (Rosita Forbes) Cassell & Co.' Volens, August 1927, expressing willingness to join his Father's party and to required serve the party in the Irish parliament.
- A.442 Used chiefly for notes on astrology.
- A.443, A.444 Two exercise books used for 'Notes for Book'.
- A.443 Used for notes at front including list of books on Palestine and the Bible.
Includes notes on indigestion, King Edward VII's illness, and notes on books 'The Aquarian Gospel' by Levi and 'Esoteric Christianity' by A. Besant.
- A.444 Used for brief notes at back on the First World War, an Everest expedition, and life of Christ.
Notes on 'My Life & Times' by Jerome K. Jerome and 'Goodbye to all that' by Robert Graves'.
- A.445 Inscribed on front cover 'Italian Words - Composition'. Used for list of Italian words and expressions for use in music, and notes on religious themes.
Used for notes on 'Diary A.B. Benson My dreams'.
- A.446 Loose manuscript notes.
Used for notes on 'Dreams + Parry R.L. Stevenson'.
- A.452 'Notes for book' on inoculation, Pompeii and India.

Biographical

- A 432 Used for notes on Leland.
- A 433 Used for notes on work of T.E. Lawrence (at Hordern).
- A 437 Used for notes on 'Biology' + 'Geology'.
- A 438 Used for notes 'From Census of Africa' and on books by Dr. Christy and Martin Hayden.
- A 439 Used for notes on poetry of Robert Browning, work of G.K. Chesterton.
- A 440 Pocket notebook used for notes on the religious life, especially the latter.
- A 441 Used for notes on 'Adventures (Pasha Forbes) Cassell & Co'.
- A 442 Used chiefly for notes on astrology.
- A 443, A 444 Two exercise books used for notes for Book.
- A 445 Includes notes on indigestion, King Edward VII's illness, and notes on books 'The Agatha Gospel' by Lay and 'Ecclesiastic Christianity' by A. Beant.
- A 446 Notes on 'My Life & Times' by Jerome K. Jerome and 'Goodbye to all that' by Robert Graves.
- A 448 Used for notes on 'Clay A.B. Benson My dream'.
- A 449 Used for notes on 'Dreams + Penny R.L. Stevenson'.

Biographical

- A.447 Used for notes on 'Dreams'. Clarendon and Gostie.
- A.448 Used for notes on 'Agonies, Remember Dreams'.
- A.449 Used for notes on psychical experiences. 'The Devil and Religious Experience'.
- A.450 Used for notes on 'psychic photography' etc.
Notes found clipped together relating chiefly to art and religion including 14pp account beginning 'Mr Heaphy spent a night in the catacombs', and to financial matters.
- A.451 Used for notes on meanings of Biblical passages and records of dreams.
- A.452 Used for notes on body and spirit and on 'Lecture on Egypt'.
Miscellaneous notes, 2 letters.
- A.453 Used for notes on the supernatural power etc of the hands, and lists of photographs taken. Also includes draft letter to Eamon de Valera, August 1927, expressing willingness to join his Fianna Fail party and if required serve the party in the Irish parliament.
Includes Needham, together with family correspondence sent by her and subsequently recovered on the deaths of the relatives to whom they were sent.
- A.454 Used for 'Prayer to God' (in Latin).
Correspondence is that between Alicia Adelaide and her husband Joseph Needham. The bulk dates from their courtship and engagement, November 1891 - August 1892. There are also some later letters.
- A.455 Used for notes at front including list of books on Palestine and the Bible.
There are personal letters received before and after her marriage, letters to other family members (chiefly her parents), and correspondence relating to her songs and performances.
- A.456 Used for brief notes at back on the First World War, an Everest expedition, and life of Christ.
A.455-A.557 Correspondence with Joseph Needham
- A.457 Inscribed on front cover 'Italian Words - Composition'. Used for list of Italian words and expressions for use in music, and notes on religious themes.
- A.458-A.464 Loose manuscript notes.
- A.458 'Notes for book' on inoculation, Pompeii and India.

Bibliography

- A.447 Used for notes on Thomas.
- A.448 Used for notes on Agnes, Remondor, Guesler.
- A.449 Used for notes on physical expressions.
- A.450 Used for notes on 'psychic photography' etc.
- A.451 Used for notes on meanings of Biblical passages and records of dreams.
- A.452 Used for notes on body and spirit and on 'lecture on Egypt'.
- A.453 Used for notes on the supernatural power etc of the hands, and lists of photographs taken. Also includes data letter to Emman de Valenz, August 1927, expressing willingness to join the French Far party and to represent the party in the Irish parliament.
- A.454 Used for 'Prayer to God' (in Latin).
- A.455 Used for notes at front including list of books on Palestine and the Bible.
- A.456 Used for brief notes at back on the First World War, an Everest expedition, and life of Christ.
- A.457 Inscribed on front cover 'Italian Words - Composition'. Used for list of Italian words and expressions for use in music, and notes on religious themes.
- A.458-A.464 Loose manuscript notes.
- A.458 Notes for book on inoculation, Pompeii and India.

Biographical

- A.459 A.537 Biographical notes on Marconi, Clemenceau and Goethe.
Alicia Adelaide Montgomery and Joseph Needham met in London in autumn 1891. Joseph proposed in December 1891 and they were married in August 1892. During their engagement they conducted a voluminous correspondence, very often she wrote him more than one letter a day.
- A.460 Notes on Plato and Platonism.
Alicia Adelaide's letters are often illustrated by her with decorative or pictorial elements such as newspaper cuttings, posies of flowers and pieces of fabric. Some of her earlier letters are represented by rough drafts.
- A.461 Notes on 'Dreams', 'The Shining Ones from the Great Beyond', 'The Devil' and 'Religious experience'.
Notes found clipped together relating chiefly to art and religion including 14pp account beginning 'Mr Heaphy spent a night in the catacombs', and to financial matters.
- A.462 Notes found clipped together relating chiefly to art and religion including 14pp account beginning 'Mr Heaphy spent a night in the catacombs', and to financial matters.
1891 November 5-20. Includes rough drafts.
- A.463, A.464 Miscellaneous notes. 2 folders.
1891 November 24-29. Includes rough drafts.

Correspondence

- A.467 1891 December 7-12.
The material presented here is family, personal and professional correspondence received by Alicia Adelaide Needham, together with family correspondence sent by her and subsequently recovered on the deaths of the relatives to whom they were sent.
- A.468 The principal sequence of correspondence is that between Alicia Adelaide and her husband Joseph Needham. The bulk dates from their courtship and engagement, November 1891 - August 1892. There are also some later letters.
- A.470 There are personal letters received before and after her marriage, letters to other family members (chiefly her parents), and correspondence relating to her songs and performances.
for record of their meetings 15 November - 4 December 1891. Loose at back are family and personal letters to Alicia Adelaide Needham, 1892, 1893 and rd.
- A.465-A.537 Correspondence with Joseph Needham
- A.471 A.538-A.596 includes for Other correspondents

- A.471A Memorabilia from 1891: list of teachers at Clapham Ladies College (includes Alicia Adelaide Montgomery), programmes for Crystal Palace, 12 and 15 December.

Biographical

- A. 4. 6. 2. 5. 1. 1. Biographical notes on Neaham, Neaham and Coates.
A. 4. 6. 2. 5. 1. 2. Notes on Pitts and Neaham.
A. 4. 6. 2. 5. 1. 3. Notes on Neaham, The Spring Cross from the Great Depot, The Day,
and Religious experience.
A. 4. 6. 2. 5. 1. 4. Notes found clipped together relating chiefly to art and religion including
a copy account beginning Mr Neaham's report a night in the cathedral, and to
financial matters.
A. 4. 6. 2. 5. 1. 5. Miscellaneous notes. 2 letters.

Correspondence

The material presented here is chiefly personal and professional
correspondence received by Alice Adelaide Neaham, together with family
correspondence sent by her and subsequently recovered on the death of
the relative to whom they were sent.
The principal sequence of correspondence is that between Alice Adelaide
and her husband Joseph Neaham. The bulk dates from their courtship and
engagement, November 1891 - August 1892. There are also some later
letters.
There are personal letters received before and after her marriage, letters to
other family members (chiefly her parents), and correspondence relating to
her songs and performances.

- A. 4. 6. 2. 5. 2. 1. Correspondence with Joseph Neaham
A. 4. 6. 2. 5. 2. 2. Other correspondence

Biographical

- A.465-A.537 Correspondence with Joseph Needham, 1891-1914.
- A.473 Alicia Adelaide Montgomery and Joseph Needham met in London in autumn 1891. Joseph proposed in December 1891 and they were married in August 1892. During their engagement they conducted a voluminous correspondence, very often she wrote him more than one letter a day.
- A.474 Alicia Adelaide's letters are often illustrated by her with decorative or humorous pictures, often self-portraits, or have bars of music or verse. A number contained enclosures such as newspaper cuttings, posies of flowers and pieces of fabric. Some of her earlier letters are represented by rough drafts.
- A.475 1892 January 21-25.
- Also included in this sequence is memorabilia from their engagement and their honeymoon in Scotland.
- A.476 1892 January 26-31.
- A.465 1891 November 5-20. Includes rough drafts.
- A.477 Notebook used for rough drafts of letters January - February 1892.
- A.466 1891 November 24-29. Includes rough drafts.
- A.478 1892 February 1-5. Includes rough drafts.
- A.467 1891 December 7-12.
- A.479 1892 February 3-6.
- A.468 1891 December 13-16.
- A.480 1892 February 8-10. Includes rough draft.
- A.469 1891 December 19-22. Includes rough draft.
- A.481 1892 February 11-13. Includes rough draft.
- A.470 Notebook used at the back for rough drafts of letters 6 December 1891 - 22 January 1892 and at the front for record of their meetings 16 November - 4 December 1891. Loose at back are family and personal letters to Alicia Adelaide Needham, 1892, 1893 and nd.
- A.482
- A.471 Nd [1891]. Includes rough drafts.
- A.471A Memorabilia from 1891: list of teachers at Clapham Ladies College (includes Alicia Adelaide Montgomery), programmes for Crystal Palace, 12 and 19 December.
- A.485 1892 February 26-29.

Biographical

A.402-A.427	Correspondence with Joseph Headlam, 1897-1914. Also Adelaide Montgomery and Joseph Headlam met in London in autumn 1897. Joseph proposed in December 1897 and they were married in August 1898. During their engagement they conducted a voluminous correspondence, very often she wrote him more than one letter a day.
A.403	Adelaide's letters are often illustrated by her with decorative or humorous pictures, often self-portraits, or some form of music or verse. A number contained references such as newspaper cuttings, poems or letters and pieces of fabric. Some of her earlier letters are represented by rough drafts.
A.404	Also included in this sequence is memorabilia from their engagement and their honeymoon in Scotland.
A.405	1897 November 8-20. Includes rough drafts.
A.406	1897 November 24-25. Includes rough drafts.
A.407	1897 December 7-12.
A.408	1897 December 13-16.
A.409	1897 December 19-22. Includes rough drafts.
A.410	Notebook used at the back for rough drafts of letters 8 December 1897 - 22 January 1898 and at the front for record of their meetings 18 November - 4 December 1897. Loose at back are family and personal letters to Adelaide Adelaide Headlam, 1892, 1893 and nd.
A.411	Nd [1897] - includes rough drafts.
A.412A	Memorabilia from 1897: list of teachers at Clapham Ladies College (includes Adelaide Montgomery), programmes for Crystal Palace, 12 and 19 December.

Biographical

- A.472 1892 January 5-10.
- A.473 1892 January 11-14.
- A.474 1892 January 15-20.
- A.475 1892 January 21-25. 27-28. Alice Adelaide Montgomery visited Joseph Needham 23-26 March.
- A.476 1892 January 26-31.
A.480 1892 March 30-31.
- A.477 Notebook used for rough drafts of letters January - February 1892.
A.481 1892 April 1-5.
- A.478 1892 February 1-3. Includes rough drafts.
A.482 1892 April 7-11.
- A.479 1892 February 3-6.
A.483 1892 April 12-16.
- A.480 1892 February 8-10. Includes rough draft.
A.484 1892 April 17-20.
- A.481 1892 February 11-13. Includes rough draft.
A.485 1892 April 21-25.
- A.482 1892 February 14-18.
A.486 1892 April 27-30.
- A.483 1892 February 19-21.
A.487 1892 May 1-5.
- A.484 1892 February 22-25.
A.488 1892 May 7-10.
- A.485 1892 February 26-29.

Biographical

1892 January 2-10	A472	1892 January 2-10
1892 January 11-14	A473	1892 January 11-14
1892 January 15-20	A474	1892 January 15-20
1892 January 21-25	A475	1892 January 21-25
1892 January 26-31	A476	1892 January 26-31
1892 February 1-5	A477	1892 February 1-5
1892 February 6-10	A478	1892 February 6-10
1892 February 11-13	A479	1892 February 11-13
1892 February 14-18	A480	1892 February 14-18
1892 February 19-21	A481	1892 February 19-21
1892 February 22-25	A482	1892 February 22-25
1892 February 26-28	A483	1892 February 26-28

Biographical

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| A.486 | 1892 March 1-4. |
| A.487 | 1892 March 5-10. |
| A.488 | 1892 March 11-20. |
| A.489 | 1892 March 21-22, 27-29. Alicia Adelaide Montgomery visited Joseph Needham 23-26 March. |
| A.490 | 1892 March 30-31. |
| A.491 | 1892 April 1-6. |
| A.492 | 1892 April 7-11. |
| A.493 | 1892 April 12-16. |
| A.494 | 1892 April 17-20. |
| A.495 | 1892 April 21-26. |
| A.496 | 1892 April 27-30. |
| A.497 | 1892 May 1-6. |
| A.498 | 1892 May 7-10. |

Biographical

1885 March 1-4	A 486
1885 March 5-10	A 487
1885 March 11-20	A 488
1885 March 21-25, 27-28 Headlam 28-30 March	A 489
1885 March 31	A 490
1885 April 1-4	A 491
1885 April 5-11	A 492
1885 April 12-16	A 493
1885 April 17-20	A 494
1885 April 21-28	A 495
1885 April 29-30	A 496
1885 May 1-6	A 497
1885 May 7-10	A 498
1885 May 11-15	A 499

Biographical

A.499	1892 May 11-15.
A.500	1892 May 16-20.
A.501	1892 May 21-25.
A.502	1892 May 26-28.
A.503	1892 May 29-31.
A.504	1892 June 2-7.
A.505	1892 June 8-11.
A.506	1892 June 12-16.
A.507	1892 June 17-20. <i>December</i>
A.508	1892 June 22-23. <i>Letters</i>
A.509 A.523	1892 June 25-30. <i>ms.</i>
A.510 A.528A	1892 July 1-5. <i>in 1892</i>
A.524, A.525 A.511	'Scotch Tour 1892 Honeymoon'. Contents of envelope so inscribed divided 1892 July 6-9. <i>ms. of reference.</i>
A.524	Letters of congratulation on marriage, September - October

Biographical

- A.512 1892 July 11-14. Memorabilia from honeymoon in Scotland.
- A.513 1892 July 15-17. Memorabilia, including receipt for wedding ring.
- A.514 1892 July 19-21. Letter to Joseph Needham by Alicia Adelaide.
- A.515 1892 July 22-23. Large sheet of blotting paper to which thirteen flowers have been attached by white thread. The flowers are numbered 0-12 and beneath each are lines (intending to identify) them.
- A.516 1892 July 24-27.
- A.517 1892 July 28-31.
- A.518 1892 August 1-3.
- A.519 1892 August 4-6. October.
- A.520 1892 September - December.
- A.521 1892. Incomplete letters. Evidence to Alicia Adelaide Needham on holiday in Switzerland.
- A.522, A.523 Nd [1892]. 2 folders.
- A.524-A.526A Memorabilia from 1892.
- A.524, A.525 'Scotch Tour 1892 Honeymoon'. Contents of envelope so inscribed divided into two for ease of reference.
- A.524 Letters of congratulation on marriage, September - October.

Biographical

- A.525 Receipts and other memorabilia from honeymoon in Scotland.
- A.526 Miscellaneous memorabilia, including receipt for wedding ring.
- A.526A Flower display sent to Joseph Needham by Alicia Adelaide.
- Large sheet of blotting paper to which thirteen flowers have been attached by white thread. The flowers are numbered 0-12 and beneath each are lines identifying (or failing to identify) them.
- A.527 1893-1894. Society, London; and Emily Ward ca 1900-1903.
- There are many undated or partially dated letters.
- A.528 1895 July.
- A.529 1895 August.
- A.530 1895 September, October.
- A.531 1896-1898.
- A.532 1902. Chiefly correspondence to Alicia Adelaide Needham on holiday in Switzerland.
- A.533 1904.
- A.534 1907-1909.
- A.535 1912, 1914.

Biographical

- A.529 Hecate and other members from Hecatom in Scotland
- A.530 Miscellaneous members, including receipt for wedding ring
- A.531 Flower display sent to Joseph Newman by Alice Adelaide
- A.532 Large sheet of drilling paper to which fifteen flowers have been attached by white thread. The flowers are numbered 0-12 and beneath each are lines identifying (or failing to identify) them
- A.533 1893-1894
- A.534 1895 July
- A.535 1895 August
- A.536 1895 September, October
- A.537 1895-1896
- A.538 1905. Chiefly correspondence to Alice Adelaide Newman on holiday in Switzerland
- A.539 1904
- A.540 1907-1908
- A.541 1912, 1914

Biographical

- A.536 Incomplete and undated letters.
- A.537 Notebook used for drafts of letters to Joseph Needham, nd.
- A.538-A.596 Other correspondents. Includes proposal of marriage from J. Frizelle, 31 October 1885.
Frequent correspondents include J. Frizelle, chiefly on religious matters 1885-1890, who proposed to her in October 1890; Blanche and Bec Stevenson, friends in Ireland; J.P. Addey and A.D. O'Leary, tutors at the School of Art, Londonderry and the Royal Academy of Music, London respectively; her parents John W. and Mary Jane Montgomery and her sisters Annie Elizabeth Montgomery and Maude Pilcher; F.A. Fahy of the Irish Literary Society, London; and Emily Ward ca.1900-1903.
1892 January - September. Includes letters of congratulation on
There are many undated or partially dated letters.
- A.538 1877, 1881, 1884.
1882 October - November.
- A.539 1885.
1892 December.
- A.540 1886. [1892].
- A.541 1887. January - May.
- A.542 1888 February - July.
- A.543 1888 August - December.
- A.544 1889 January - June. Includes letters of congratulation on passing examination for Licentiatehip of Royal Academy of Music.
Alicia Adelaide Needham gave a piano recital. The concert was organised by Joseph Needham.
- A.545 1889 July - December.

Biographical

- A538
Pronouns and related letters
- A537
Headform used for study of letters to Joseph Headform, etc.
- A538-A539
Other correspondence
- Frequent correspondents include J. Pitts, chiefly on religious matters 1882-1890, who passed to her in October 1890; Blanche and Ben Stevenson, friends in Ireland; J.P. Adley and A.D. O'Leary, tutor at the School of Art, Lambeth; and the Royal Academy of Music, London, respectively, her parents John W. and Mary Jane Montgomery and her sisters Annie Elizabeth Montgomery and Maude Pickett, F.A. Fair of the Irish Literary Society, London, and Emily Ward ca 1900-1902.
- There are many undated or partially dated letters.
- A538
1877, 1881, 1884
- A539
1888
- A540
1888
- A541
1887
- A542
1888 February - July
- A543
1888 August - December
- A544
1888 January - June. Includes letters of congratulation on passing examination for Licentiate of Royal Academy of Music.
- A545
1888 July - December

Biographical

- A.546 1890 January - March. Includes correspondence from F.A. Fatty re her admission to the Irish Literary Society, London.
- A.547 1890 April - August.
A.548 1894 May - June. Includes correspondence re arrangements for concert under the auspices of the Irish Literary Society, 5 and 6 July 1894.
- A.548 1890 September - December. Includes proposal of marriage from J. Frizelle, 31 October.
- A.549 1891. July - August. Includes correspondence re Alicia Adelaide Needham's songs.
- A.550 1892 January - September. Includes letters of congratulation on engagement and re marriage.
- A.551 1892 October - November. correspondence re songs.
- A.552 1892 December. Includes correspondence re songs.
- A.553 Nd [1892].
A.553 1895 January - June. Includes correspondence re arrangements for concert, 21 February 1895.
- A.553 1893 January - May.
A.554 1895 July - August. Chiefly re songs.
- A.554 1893 June - August.
A.555 1895 September - December, 1896 January. Includes letters of congratulation on success in music examination [7th Oxford], October.
- A.555 1893 September - December.
- A.556 1896 March 18-24. Chiefly letters home from M.J. Montgomery (mother of Alicia Adelaide Needham) who was unwell and visiting her daughter in
1894 January - February. Includes correspondence re concert given on 1 February 1894.
- A.557 Alicia Adelaide Needham gave a piano recital. The concert was organised by Joseph Needham. Chiefly letters home from her mother.

Biographical

A.548	1890 January - March	
A.547	1890 April - August	
A.546	1890 September - December. Includes proposal of marriage from J. Fritsch, 21 October.	
A.545	1891	
A.550	1892 January - September. Includes letters of congratulation on engagement and marriage.	
A.551	1892 October - November.	
A.552	1892 December.	
	nd [1892]	
A.553	1892 January - May.	
A.554	1892 June - August.	
A.555	1892 September - December.	
A.556	1894 January - February. Includes correspondence re concert given on 7 February 1894.	
	Alice Adelaide Needham gave a piano recital. The concert was organised by Joseph Needham.	

Biographical

- A.557 1894 March - April. Includes correspondence from F.A. Fahy *re* her admission to the Irish Literary Society, London.
- A.558 1894 April 7-30. Chiefly *re* illness of her mother.
1894 May - June. Includes correspondence *re* arrangements for concert under the auspices of the Irish Literary Society, 5 and 6 July 1894.
- A.570 The concert was organised by the Needhams. Some of Alicia Adelaide Needham's Irish songs were performed.
- A.571 1896 June - December. Includes telegrams of congratulation on passing
A.559 1894 July - August. Includes correspondence *re* Alicia Adelaide Needham's songs.
- A.572 1897-1899.
A.560 1894 September - October.
- A.573 1900.
A.561 1894 November. Includes correspondence *re* songs.
- A.574 1901. Includes letter *re* prize-giving at Stratford Music Festival, London.
A.562 1894 December. Includes correspondence *re* songs. Fels Ocell.
- A.563 1895 January - June. Includes correspondence *re* arrangements for concert, 21 February 1895.
- A.564 1895 July - August. Chiefly *re* songs.
A.575 1902 January - March. Includes invitations to lecture to National Literary Society, Dublin and to Celtic Association 'conversations'; correspondence *re* prize-giving at Stratford Music Festival, March, and correspondence *re*
- A.565 1895 September - December, 1896 January. Includes letters of congratulation on success in music examination [?at Oxford], October.
- A.577 1902 April - August. Includes telegrams of congratulation on her prize.
A.566 1896 March 18-24. Chiefly letters home from M.J. Montgomery (mother of Alicia Adelaide Needham) who was unwell and visiting her daughter in Clapham Park.
- A.576 1902 September - December. Includes letters *re* dedication of songs by
A.567 1896 March 25-31. Chiefly letters home from her mother.

Biographical

- A.587 1894 March - April. Includes correspondence from F.A. Faby to his admission to the Irish Literary Society, London.
- A.588 1894 May - June. Includes correspondence in arrangements for concert under the auspices of the Irish Literary Society, 2 and 6 July 1894. The concert was organised by the Needhams. Some of Alice Adelaide Needham's first songs were performed.
- A.589 1894 July - August. Includes correspondence to Alice Adelaide Needham's songs.
- A.590 1894 September - October.
- A.591 1894 November. Includes correspondence in songs.
- A.592 1894 December. Includes correspondence in songs.
- A.593 1895 January - June. Includes correspondence in arrangements for concert, 21 February 1895.
- A.594 1895 July - August. Chiefly in songs.
- A.595 1895 September - December, 1896 January. Includes letters of congratulation on success in music examination [for Oxford], October.
- A.596 1896 March 18-24. Chiefly letters home from M.J. Montgomery (mother of Alice Adelaide Needham) who was travelling and visiting her daughter in Clifton Park.
- A.597 1896 March 25-31. Chiefly letters home from her mother.

Biographical

- A.568 1896 April 1-6. Chiefly letters home reporting on condition of her mother.
- A.569 1896 April 7-30. Chiefly *re* illness of her mother.
- A.570 1896 May. Chiefly *re* death of her mother.
- A.571 1896 June - December. Includes telegrams of congratulation on passing music examination.
- A.572 1897-1899.
- A.573 1900.
- A.574 1901. Includes letter *re* prize-giving at Stratford Music Festival, London, February, and notification of prize for song 'Innisfail' at Feis Ceoil.
- A.575 'Letters from K.T.H.'. Letters from Katharine Tynan Hinkson, who wrote the words for a number of her songs, 1901-1903, 1906.
- A.576 1902 January - March. Includes invitations to lecture to National Literary Society, Dublin and to Celtic Association 'conversazione'; correspondence *re* prize-giving at Stratford Music Festival, March, and correspondence *re* possible concert before the King and Queen in Dublin.
- A.577 1902 April - August. Includes telegrams of congratulation on her prize-winning song on coronation of Edward VII, and notification of her election as Associate of the Philharmonic Society.
- A.578 1902 September - December. Includes letters *re* dedication of songs by Alicia Adelaide Needham.

Biographical

- A.568 1898 April 1-6. Chiefly letters home reporting on condition of her mother.
- A.569 1898 April 7-30. Chiefly in letters of her mother.
- A.570 1898 May. Chiefly in letters of her mother.
- A.571 1898 June - December. Includes telegrams of congratulation on passing music examination.
- A.572 1897-1899.
- A.573 1900.
- A.574 1901. Includes letter in prize-giving at Stratford Music Festival, London, February, and notification of prize for song finished at Fairs Café.
- A.575 Letters from K.T.H. Letters from Kathleen Tynan Hinton, who wrote the words for a number of her songs, 1901-1903, 1908.
- A.576 1902 January - March. Includes invitations to lecture to National Library Society, Dublin and to Celtic Association 'conversations', correspondence in prize-giving at Stratford Music Festival, March, and correspondence in possible concert before the King and Queen in Dublin.
- A.577 1902 April - August. Includes telegrams of congratulation on her prize-winning song on coronation of Edward VII, and notification of her election as Associate of the Philharmonic Society.
- A.578 1902 September - December. Includes letters in dedication of songs by Alicia Adelaide Needham.

Biographical

- A.579 1903 January - February. Includes notifications of election to Royal Academy Musical Union and of Feis Ceoil prize for song 'Servato Fidem'.
- A.580 Addressed to Miss Montgomery
- A.580 1903 March - May. Includes correspondence *re* adjudication of song competitions by *The Girl's Realm*, Sunday School Union and *The Gentlewoman*.
- A.581 1903 June - December. Includes letters of thanks for copies of Alicia Adelaide Needham's collection of 'Soldiers' Songs'.
- A.582 1904, 1906. Includes correspondence from Katharine Tynan Hinkson, 1906.
- A.583 1907. Includes letters *re* dinner at the Irish Club, and letters to her father J.W. Montgomery *re* her financial situation.
- A.584 1908. Chiefly letters to her father *re* financial situation.
- A.585 1909. Letters to her father.
- A.586 Miscellaneous
- A.586 1910. Letters to her father.
- A.587 Her mother's Bible, inscribed inside front cover by Alicia Adelaide Needham. With a Bible cover material intercalated.
- A.587 1911-1915.
- A.588 Press-cuttings, greetings cards.
- A.588 1917. Chiefly drafts of letters to Lloyd George, Prime Minister, *re* possibility of civil list pension, and acknowledgements.
- A.589 Accounts, receipts, bills and other financial papers.
- A.589 1920.
- A.590 Manuscript notes on financial prospects, personal difficulties etc.
- A.591 ?1931. Letter of congratulation to her son, possibly on publication of his book *Chemical Embryology* in 1931. The letter also includes Alicia Adelaide Needham's personal reflections.

Biographical

A.590-A.596 Undated or partially dated. 7 folders.

A.590 Addressed to 'Miss Montgomery'.

A.591 Addressed to 'Mrs Needham'.

A.592 Addressed to 'Del'. Chiefly from 'Bec'.

A.593 Other letters to Alicia Adelaide Needham. Chiefly from family.

A.594-A.596 Correspondence and papers, 1820-1826.

A.594 Letters from Alicia Adelaide Needham to father and sisters.

A.595 Letters to 'Eileen' from 'Bec'.

A.596 Other correspondents.

Miscellaneous

A.597 Her mother's Bible, inscribed inside front cover by Alicia Adelaide Needham. With a little loose material intercalated.

A.598 Press-cuttings, greetings cards.

A.599 Accounts, receipts, bills and other financial papers.

A.600 Manuscript notes on financial prospects, personal difficulties etc.

A.601 Miscellaneous memorabilia.

Biographical

Joseph Needham (father)

- A.612 Joseph Needham was born in 1852. He became a member of the Royal College of Surgeons in 1875 and graduated M.B., M.Chir from the University of Aberdeen in 1879. He died in 1920.
- A.602, A.603 Medical certificates, 1871-1880. 2 rolls.
- A.613 Will, dated 1903.
- A.604 Letters of congratulation to Needham on reducing the consumption of 'stimulants' and wine and spirits among in-patients at the London Hospital, 1877 and 1878. Needham was House Surgeon at the Hospital.
- A.614-A.618 J.W. Montgomery contributed occasional articles under this title to the [?] Evening Telegraph giving geographical and topographical descriptions of parts of Ireland. It was suggested these be collected and
- A.605-A.611 Correspondence and papers, 1890-1920.
- A.605 1890-1891.
- A.606 1892. Includes letters *re* patients and congratulations on marriage.
- A.616 A.618
- A.615 'The Irish Boy Lough and Round Moine', paginated 1-8, 30-32.
- A.607 1893, 1894. Includes letters *re* patients.
- A.616 'Lough Sheela, co. Cavan' and 'Lough Fee, co. Monaghan', paginated 44-
- A.608 1895, 1900.
- A.609 1912-1914. Includes notification of award of Coronation Medal for his work for the Police Ambulance Service of the Metropolitan Police, 1912, and correspondence *re* estate of Sir Wyke Bayliss, 1913-1914.
- Dorothy Mary Moyle
- A.610 1919, 1920. *Re* Needham's illness and death.
- The principal archive of the papers of Dorothy Needham is deposited in the Library of Girton College Cambridge. The papers are catalogued as NCUACS 23/2/90 and NCUACS 37/5/92.
- A.611 Nd. Chiefly letters *re* patients.

Biographical

John W. Montgomery (maternal grandfather) to Dorothy Needham by Joseph Needham, written after her death in December 1937.

A.612 'My dearest Father Our pedigree etc'. Montgomery's letters so labelled by his daughter Alicia Adelaide Needham. Includes photographic negative of gravestone of his wife.

Notification of payment from Selt Memorial Fellowship, 1928.

A.613 Will, dated 1909.

A.615-A.621 Duplicated typescript and printed material from societies and organisations supported by Dorothy Needham.

A.614-A.616 'A delightful holiday'.

A.618 J.W. Montgomery contributed occasional articles under this title to the [?Belfast] *Evening Telegraph* giving geographical and topographical descriptions of parts of Ireland. It was suggested these be collected and published in book form.

A.619 National Assembly of Women, 1954.

A.614 Letter re possible publication; list of chapters.

A.620 British Federation of University Women, 1965, 1972, 1973.

A.615, A.616 Drafts of chapters.

A.621 Miscellaneous.

A.615 'The Irish Poor Laws' and 'Round Mourne', paginated 1-9, 30-32.

A.616 at-Djen (second) 'Lough Sheelin, co. Cavan' and 'Lough Fea, co. Monaghan', paginated 44-51.

Lu (1904-1991) was a biochemist. Educated at Ginling College, Nanking, she went to Cambridge as a postgraduate to study under Dorothy Needham in 1937. She became a very close friend of the Needhams and was one of

Dorothy Mary Moyle Needham (first wife) Joseph Needham to begin his study of Chinese language and civilization. After the war Lu worked with the UNESCO Section of Natural Sciences in Paris and then in 1957 returned to Cambridge where Dorothy Mary Moyle (1896-1987) was a fellow researcher in the Cambridge Biochemistry Department. She married Joseph Needham in 1924.

The principal archive of the papers of Dorothy Needham is deposited in the Library of Girton College Cambridge. The papers are catalogued as NCUACS 22/7/90 and NCUACS 37/5/92.

Biographical

John W. Montgomery (maternal grandfather)

A512 My dearest Father. Our pedigree etc. Montgomery's letter as related by his daughter Anne Neelam Neelam. Includes photographic negative of gravestone of his wife.

A512 Will, dated 1908

A514-A516 A dearest holiday. J.W. Montgomery contributed occasional articles under this title to the [?Bell] Evening Telegraph giving geographical and topographical descriptions of parts of Ireland. It was suggested these be collected and published in book form.

A512 Letter in possible publication; list of chapters.

A512, A516 Drafts of chapters.

A516 'The Irish Poor Laws' and 'Round House', paginated 1-8, 30-32.

A516 'Lough Swilly, co. Cavan' and 'Lough Far, co. Monaghan', paginated 44-47.

Dorothy Mary Neelam (first wife)

Dorothy Mary Neelam (1855-1927) was a fellow researcher in the Cambridge Biochemistry Department. She married Joseph Neelam in 1884.

The principal archive of the papers of Dorothy Neelam is deposited in the Library of Girton College Cambridge. The papers are catalogued as NCUACS 327195 and NCUACS 327192.

Biographical

- A.617 Typescript draft of tribute to Dorothy Needham by Joseph Needham, written after her death in December 1987.

Contents of box file labelled 'South African War Papers of Elz. Montgomery Lists of publications to ca.1932.

Wilson (d.1939) was Matron at Cardiff Infirmary when war broke out in Notification of payment from Beit Memorial Fellowship, 1928.

- A.618-A.621 Duplicated typescript and printed material from societies and organisations supported by Dorothy Needham.

- A.618 Permanent International Committee of Mothers, 1957.

- A.619 National Assembly of Women, 1964.

- A.620 British Federation of University Women, 1965, 1972, 1973.

- A.621 Miscellaneous.

- Lu Gwei-Djen (second wife)

Lu (1904-1991) was a biochemist. Educated at Ginling College, Nanking, she went to Cambridge as a postgraduate to study under Dorothy Needham in 1937. She became a very close friend of the Needhams and was one of those who inspired Joseph Needham to begin his study of Chinese language and civilisation. After the war Lu served with the UNESCO Section of Natural Sciences in Paris and then in 1957 returned to Cambridge where she was to collaborate with Needham on his multi-volume history *Science and Civilisation in China*. Lu married Needham in 1989.

- A.622 Obituaries, 1991.

- A.628 Orders, July, August 1900.

Biographical

Elizabeth A. Montgomery Wilson (cousin)

reports on the war sent by Lord Roberts to his wife, September 1900, and sent on by Lady Roberts to Wilson.

Contents of box-file labelled 'South African War Papers of Eliz. Montgomery Wilson R.R.C. Army Nursing Service'.

Wilson (d.1939) was Matron at Cardiff Infirmary when war broke out in South Africa in 1899. She volunteered for service in March 1900 and was accepted for service in June. She took four other nurses from the Cardiff Infirmary and served as Matron of the South African Field Force 'Langman Hospital'. She was released from service in December following the capture of Pretoria by Field Marshal Lord Roberts. She was awarded the South African War Medal in 1901. Wilson volunteered again in 1901 and 1902 to serve in South Africa but her services were not required.

A.623 Lists of posts held, ca.1878-1924, and service up to South African War.

Correspondence, 1902-1903. Includes letter re possible service in South Africa.
Testimonial from Derby Royal Infirmary, April 1897.

A.634 Member of General Council of Royal British Nurses' Association, May 1899.
service with the Army Nursing Service Reserve, 1907.

A.624 Correspondence, April - August 1900. Includes telegrams from Army Nursing Service Reserve re service in South Africa.

A.625 Correspondence, October - December 1900. Includes letter from Lord Roberts thanking her for her service, 7 October.
Correspondence 1912 and photograph of ?Roberts visiting Cardiff Infirmary 1918.

A.626-A.631 Memorabilia from South Africa.

Baden-Powell, 5 February 1901, with letter 1903, and reproduction of associated sketch by sent to Wilson.
A.626 Mounted photographs of South African campaign: military units, field hospitals etc.

A.628 Three photographs of Wilson.

A.627 Tin box, 6" x 3½", sent to troops in 'South Africa 1900'. Contains three miniature photographs of Wilson (two in nurse's uniform) and coins of the South African Republic.

A.628 Orders, July, August 1900.

Biographical

A.629 Copies of typescript reports on the war sent by Lord Roberts to his wife, September 1900, and sent on by Lady Roberts to Wilson.

A.627 Alice Adelaide Needham, 3 photographs.

A.630 Letters and copies of letters of appreciation.

A.631 Miscellaneous. Includes social invitations.

A.638 Joseph Needham (father), 2 photographs.

A.632 Correspondence, 1901. Includes letters from South Africa.

A.633 Correspondence, 1902-1903. Includes letter *re* possible service in South Africa.

A.640, A.641 Undertyped, 2 folders.

A.634 Correspondence, 1905-1923 and nd. Includes letter extending Wilson's service with the Army Nursing Service Reserve, 1907.

CLIFFS, ASSOCIATION Manuscript codicil to Will, 1 May 1939.

A.635 A.643 Signed photographs and related correspondence:

Lord Roberts, 13 October 1900, with correspondence 1912 and photograph of ?Roberts visiting Cardiff Infirmary 1916.

Association of Scientific Workers (ASW), Needham had been a member of Lord Kitchener, with letter November 1900.

Baden-Powell, 5 February 1901, with letter 1903, and reproduction of annotated sketch he sent to Wilson.

A.642 Cambridge University branch of ASTMS and formation of Cambridge University Trade Union Committee 1876.

A.636 Three photographs of Wilson.

A.643 Printed material.

Envelope of miscellaneous photographs.

A.644 Association of University Teachers

Printed and duplicated typescript material, 1930s.

Biographical

- A.9.2.1.1. Copy of typewritten report on the war sent by Lord Roberts to his wife, September 1900, and sent on by Lady Roberts to Wilson.
- A.9.2.1.2. Letters and copies of letters of appreciation.
- A.9.2.1.3. Miscellaneous, includes several invitations.
- A.9.2.1.4. Correspondence, 1901. Includes letters from South Africa.
- A.9.2.1.5. Correspondence, 1902-1903. Includes letter re possible service in South Africa.
- A.9.2.1.6. Correspondence, 1902-1903 and rd. Includes letter extending Wilson's service with the Army Nursing Service Reserve, 1907.
- A.9.2.1.7. Manuscript codex to Wm. 1 May 1930.
- A.9.2.1.8. Signed photographs and related correspondence.
- A.9.2.1.9. Lord Roberts, 13 October 1900, with correspondence 1912 and photograph of Roberts visiting Cardiff Infirmary 1916.
- A.9.2.1.10. Lord Kitchener, with letter November 1900.
- A.9.2.1.11. Baden-Powell, 5 February 1901, with letter 1903, and reproduction of annotated sketch he sent to Wilson.
- A.9.2.1.12. Three photographs of Wilson.
- A.9.2.1.13. Envelope of miscellaneous photographs.

Biographical

Photographs

- A.637 Alicia Adelaide Needham. 3 photographs.
- A.638 Alicia Adelaide Needham with son. 2 photographs.
- A.638 Joseph Needham (father). 2 photographs.
- A.638 Joseph Needham (father) with son. 1 photograph.
- A.639 Joseph Needham as child. 1 negative, 2 photographs.
- A.640, A.641 Unidentified. 2 folders.

CLUBS, ASSOCIATIONS AND OTHER INTERESTS

- A.642, A.643 Association of Scientific, Technical and Managerial Staffs (ASTMS)
- This Trade Union was formed in 1968 by an amalgamation of the Association of Supervisory Staffs, Executives and Technicians and the Association of Scientific Workers (ASW). Needham had been a member of the ASW.
- A.642 Correspondence and papers 1970-1971, 1975. Includes correspondence *re* Cambridge University branch of ASTMS and formation of Cambridge University Trade Union Committee 1970.
- A.643 Printed material.
- A.644 Association of University Teachers
- Printed and duplicated typescript material, 1960s.

Biographical

- A.645-A.647 Cambridge Cyrene Community
- The Cambridge Cyrene Community (formerly the Simon Community) was an organisation formed in 1965 to provide shelter and support for homeless people in Cambridge.
- A.645 Issues of 'Simon Star', national newsletter of Simon Communities, 1967-1968 (not a complete sequence).
- A.646 Newsletters of Cambridge Simon and Cambridge Cyrene Communities, 1969-1974 (not a complete sequence).
- A.647 Miscellaneous circulars, appeals etc. 1969-1975.
- A.648, A.649 Community Settlement
- The Community Settlement was founded to do voluntary community work in the Westminster and Kensington areas of London.
- Annual reports, appeals 1969-1972. 2 folders.
- A.650 National and Local Government Officers Association (NALGO)
- Printed material 1970.
- A.651 Old Oundelian Club
- Needham had been a pupil at Oundle School 1914-1918.
- Order of service for consecration of Oundle School Memorial Chapel, 1923; appeal, 1972; list of members, 1972.
- A.652 Oxford and Cambridge University Club
- Papers re future of Club, 1966-1972.

Biographical

A.6.1-A.6.17
Cambridge Cyrene Community
The Cambridge Cyrene Community formerly the Cyrene Community was an
organization formed in 1955 to provide shelter and support for homeless
people in Cambridge.

A.6.18
Issue of 'Simon Star' national newsletter of Simon Communities, 1967-
1968 (not a complete sequence).

A.6.19
Newsletters of Cambridge Simon and Cambridge Cyrene Communities,
1968-1974 (not a complete sequence).

A.6.20
Miscellaneous circular appeals etc. 1968-1972.

A.6.21, A.6.22
Community Settlement
The Community Settlement was founded to do voluntary community work in
the Westminster and Kensington areas of London.
Annual reports, appeals 1968-1972. 2 folders.

A.6.23
National and Local Government Officers Association (NALGO)
Printed material 1970.

A.6.24
Old Oundle Club
Needham had been a pupil at Oundle School 1914-1918.
Order of service for consecration of Oundle School Memorial Chapel, 1923.
appeal, 1972; list of members, 1972.

A.6.25
Oxford and Cambridge University Club
Papers re future of Club, 1968-1972.

Biographical

- A.653, A.654 Miscellaneous national and international charitable appeals.
1963-1972 and nd. 2 folders.

A.654 1932.

- A.655 Miscellaneous Cambridge charitable appeals
1968-1971.

A.657 1934.

SOCIAL ENGAGEMENTS AND INVITATIONS

A.658 1935.

Most of the pre-1950 material relates to events at Cambridge, including menus and programmes from college functions and programmes from theatre visits. The later material includes programmes for theatre visits, brochures for exhibitions, etc.

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- A.656 1919, 1922.

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- A.657 1923.

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- A.658 1924.

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- A.660 1926, 1927.

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- A.661 1928.

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- A.662 1929.

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- A.663 1930.

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Biographical

Miscellaneous national and international exhibits displays.

A.624

1923-1975 and ed. 2 later

Miscellaneous Cambridge exhibits displays

A.625

1923-1975

SOCIAL ENGAGEMENTS AND INVITATIONS

Most of the pre-1950 material refers to events at Cambridge, including menus and programmes from college functions and programmes from theatre visits. The later material includes programmes for theatre visits, programmes for exhibitions, etc.

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1924

A.628

1925

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1926, 1927

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1928

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1929

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Biographical

- A.664 1931.
- A.665 1932.
Contents of Needham's folders. Include some financial information relating to Dorothy Needham.
- A.666 1933.
Income tax file. 7 folders.
- A.667 1934.
Includes material re income from stocks 1933-1937, maintenance of Needham's mother, 1939-1940, estate of Needham's parents and cousin Elizabeth A.M. Wilson, correspondence with Inland Revenue re income tax and surtax 1947-1954, etc.
- A.668 1935.
J.N. Accounts. 4 folders.
- A.669 1936.
Correspondence and papers, 1942-1950, re British Council funding for Needham's work in China. Includes lists of expenditure, receipts etc.
- A.670 1937, 1941, 1950.
Comptroller Foreign Bank. 4 folders.
- A.671 1956-1969.
Correspondence and papers, 1946-1948, re emigration and expenses while working for UNESCO, and money retained in French bank account 1949-1950.
- A.672 1956-1972. *Re* paintings by Nancy Kuo.
- A.673 1970-1972.
- MISCELLANEOUS
- A.674 1973.
Sketch of Needham, made at 'Congress of Exp. Biol.'
- A.675-A.677 Nd. 3 folders.
Clipping from *Moscow News*, 1 January 1957, with greetings to Joseph and Dorothy Needham from V.A. Engelhardt.
- A.685 Manuscript notes; memorabilia.

Illustrations

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1975-1976

A.675-A.677

Biographical

FINANCIAL

Contents of Needham's folders. Include some financial information relating to Dorothy Needham.

A.678-A.684

'Old income tax file'. 7 folders.

Includes material *re* income from stocks 1933-1937, maintenance of Needham's mother, 1939-1940, estate of Needham's parents and cousin Elizabeth A.M. Wilson, correspondence with Inland Revenue *re* income tax and surtax 1947-1954, etc.

A.685-A.688

'J.N. Accounts'. 4 folders.

Correspondence and papers, 1942-1950, *re* British Council funding for Needham's work in China. Includes lists of expenses, receipts etc.

A.689-A.692

'Unesco Westminster Foreign Bank'. 4 folders.

Correspondence and papers, 1946-1948, *re* salary and expenses while working for UNESCO, and money retained in French bank account 1949-1959.

A.693

Chequebook stubs, 1946-1959.

MISCELLANEOUS

A.694

Sketch of Needham, made at 'Congress of Exp. Biol.'

Newspaper cutting from *Moscow News*, 1 January 1957, with greetings to Joseph and Dorothy Needham from V.A. Engelhardt.

A.695

Manuscript notes; memorabilia.

Biographical

FINANCIAL

Contents of Neelam's folders. Includes some financial information relating to Dorothy Neelam.

Old income tax file. 7 folders.

A.578-A.584

Includes material on income from stocks 1933-1937, maintenance of Neelam's mother, 1933-1940, estate of Neelam's parents and cousin Elizabeth A.M. Wilson, correspondence with Inland Revenue re income tax and estate 1947-1954, etc.

'J.N. Accounts', 4 folders.

A.585-A.588

Correspondence and papers, 1945-1950, re British Council funding for Neelam's work in China. Includes lists of expenses, receipts etc.

Unesco Westernized Foreign Bank. 4 folders.

A.589-A.592

Correspondence and papers, 1945-1948, re salary and expenses while working for UNESCO, and money retained in French bank account 1945-1950.

Checkbook stubs, 1946-1952.

A.593

MISCELLANEOUS

Sketch of Neelam, made at Congress of Exp. Biol.

A.594

Newspaper cutting from Moscow News, 1 January 1957, with greetings to Joseph and Dorothy Neelam from V.A. Engelhardt.

Manuscript notes; memorabilia.

A.595

SECTION B

CAMBRIDGE UNIVERSITY

B.1-B.388

DEPARTMENT OF BIOCHEMISTRY

Needham spent his whole academic career at Cambridge. He was an undergraduate at Gonville and Caius College 1918-1922 and from 1922 to 1924 held a Benn Levy Studentship for postgraduate research under F.G. Hopkins. He was University Demonstrator in Biochemistry 1928-1933 and Sir William Dunn Reader in Biochemistry 1933-1966. Needham became a Fellow of Gonville and Caius College in 1924, and served as Master 1966-1976.

In addition to his membership of the Department of Biochemistry Needham was influential from the mid-1930s in the establishment of the history and philosophy of science as an accepted academic discipline in Cambridge University. He served on the History of Science Lectures Committee and its successors the History of Science Committee and the History and Philosophy of Science Committee. In recognition of his pioneering work on the history and civilisation of China Needham was appointed a member of the Faculty Board of Oriental Languages (later Oriental Studies) in 1949.

The material is presented as follows:

B.1-B.260

DEPARTMENT OF BIOCHEMISTRY

B.261-B.297

UNIVERSITY GENERAL AND MISCELLANEOUS

B.298-B.368

HISTORY OF SCIENCE COMMITTEE

B.369-B.376

FACULTY BOARD OF ORIENTAL STUDIES

B.377-B.388

GONVILLE AND CAIUS COLLEGE

B.1-B.388

CAMBRIDGE UNIVERSITY

SECTION B

Needham spent his whole academic career at Cambridge. He was an undergraduate at Gonville and Caius College 1918-1922 and from 1922 to 1924 held a Saint Mary's Studentship for postgraduate research under F.G. Hopkins. He was University Demonstrator in Biochemistry 1928-1932 and Sir William Dunn Reader in Biochemistry 1932-1935. Needham became a Fellow of Gonville and Caius College in 1934, and served as Master 1935-1970.

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The material is presented as follows:

B.1-B.280	DEPARTMENT OF BIOCHEMISTRY
B.281-B.297	UNIVERSITY GENERAL AND MISCELLANEOUS
B.298-B.388	HISTORY OF SCIENCE COMMITTEE
B.389-B.378	FACULTY BOARD OF ORIENTAL STUDIES
B.377-B.388	GONVILLE AND CAIUS COLLEGE

Cambridge University

DEPARTMENT OF BIOCHEMISTRY

B.4	B.1-B.41	Funding and administration of research
B.5	B.42-B.230 1930-1931	Lectures
B.6	B.231-B.234 1931-1932. Includes 'List of papers published since the last report.'	Requests to visit
B.7	B.235-B.260 1932-1933. Includes 'References to transactions, journals, etc in which printed since the date of the last report' and application for an emergency grant.	General and miscellaneous
Funding and administration of research		
B.8	B.1-B.20 1933-1934. Includes 'Investigations in progress or projected.'	Royal Society
B.9, B.10	B.21-B.30 1935-1936. Includes 'List of papers'.	Rockefeller Foundation
B.11	B.31-B.33 1936-1939. Includes 'Other grants' [published] papers' and list of main research activities. 2 folders.	Other grants
B.12	B.34-B.41	Drugs, equipment etc
B.13	B.1-B.19 1925-1943. Includes 'List of papers'.	Metabolism of the developing egg.
B.14	Between 1925 and 1943, with a break in 1929 when Needham was in the USA, the Royal Society provided Needham with annual grants for equipment and supplies for research on this subject. The material comprises notifications of the sums awarded, Needham's accounts, invoices and receipts for goods bought with money from the grants, and lists of papers and research carried out for the year of the grant.	
B.15	Needham's manuscript list of Royal Society grants 1925-1943.	
B.16	The remarkable Bayger correspondence Laying-esson of 1939. Contents of Needham's envelope so inscribed: correspondence re supply of 1925-1926; 1926-1927. in Poland by J.A. Bayger, May 1939.	

Cambridge University

DEPARTMENT OF BIOCHEMISTRY

Funding and administration of research	B.1-B.41
Letters	B.42-B.230
Requests to visit	B.231-B.234
General and miscellaneous	B.235-B.250
Funding and administration of research	B.1-B.20
Royal Society	B.21-B.30
Rockefeller Foundation	B.31-B.33
Other grants	B.34-B.41
Drugs, equipment etc.	
Royal Society	
Metabolism of the developing egg	B.1-B.19

Between 1925 and 1943, with a break in 1929 when Needham was in the USA, the Royal Society provided Needham with annual grants for equipment and supplies for research on this subject. The material comprises notifications of the sums awarded, Needham's accounts, invoices and receipts for goods bought with money from the grants, and lists of papers and research carried out for the year of the grant.

Needham's manuscript list of Royal Society grants 1925-1943.

1925-1928, 1929-1937.

B.2

B.3

B.4

B.5

B.6

B.7

B.8

B.9

B.10

B.11

B.12

B.13

B.14

Cambridge University

- B.3 1927-1928. Reported news from Poland, rather than Germany, on political grounds. However, on receipt of Bayger's claim for over 540 zlotys in expenses (to be set against the Royal Society grant) W.W. Nowinski, a Pole doing research under Needham in Cambridge, suggested the figure was far too high. Bayger wrote to Needham explaining his expenses and defending his integrity.
- B.4 1929-1930.
- B.5 1930-1931.
- B.6 1931-1932. Includes 'List of papers published since the last report'.
- B.7 1932-1933. Includes 'References to transactions, journals, etc in which results have been printed since the date of the last report' and application for an emergency grant. Needham received awards for both these periods but in neither case was able to spend all the grant money and returned the unspent balance to the Royal Society.
- B.8 1933-1934. Includes 'Investigations in progress or projected'.
- B.9, B.10 1934-1935. Includes (at B.9) 'List of [published] papers' and list of main research activities. 2 folders. Notices of award of Royal Society grant to F.G. Hopkins from the Medical Research Council, and of Dr J. Needham and Mr C.H. Waddington on chemical aspects of organismic phenomena in amphibians (1934-1935) by Needham.
- B.11 1935-1936. Includes 'List of papers'.
- B.12, B.13 1936-1937. Includes (at B.12) 'List of papers'. 2 folders. In 1934 the Rockefeller Foundation expressed its intention to fund work in the areas of embryology and genetics. Needham sought support from the Foundation for a research institute to bring together the various aspects of embryology and genetics. However, concern in Cambridge over the number of medical students entering the university (which included some studying in the biochemistry department) led to the plans for the institute being suspended in October 1936. The Rockefeller Foundation then funded a research grant to Needham for 1936-1937.
- B.14 1937-1938. Includes 'List of papers'.
- B.15 1938-1939. Includes 'List of papers'.
- B.16 'The remarkable Bayger correspondence Laying-season of 1939'. Contents of Needham's envelope so inscribed: correspondence re supply of specimens of newts from Poland by J.A. Bayger, May 1939. of Nazi victory in Europe.

...

The remarkable Bayser correspondence (Laying-season of 1933). Contents of Neidman's envelope so inscribed: correspondence in supply of specimens of newts from Poland by J.A. Bayser, May 1933.

B.18

1933-1936. Includes list of papers published since the last report.

B.19

1937-1938. Includes list of papers published since the last report.

B.20

1938-1939. Includes list of papers published since the last report.

B.21, B.22

1939-1940. Includes list of papers published since the last report.

B.23

1941-1942. Includes list of papers published since the last report.

B.24, B.25

1943-1944. Includes investigations in progress or projected.

B.26

1945-1946. Includes references to publications, journals, etc. in which results have been printed since the date of the last report, and application for an emergency grant.

B.27

1947-1948. Includes list of papers published since the last report.

B.28

1949-1950.

B.29

1951-1952.

B.30

1953-1954.

B.31

Cambridge University

/...21-8.30

Needham imported newts from Poland, rather than Germany, on political grounds. However, on receipt of Bayger's claim for over 540 zlotys in expenses (to be set against the Royal Society grant) W.W. Nowinski, a Pole doing research under Needham in Cambridge, suggested the figure was far too high. Bayger wrote to Needham explaining his expenses and defending his integrity.

See 1-pp draft letter to W.E. Tisdale, Assistant Director of the Foundation, setting out Needham's thoughts on the possible development of embryology in Cambridge with Rockefeller support. See also E.112.

B.21

B.17

1939-1940.

B.22

1939 January, February. Includes draft memorandum by D.M. Winch, re requirements for an institute of embryology in the area of x-ray analysis, and

B.18

1940-1941. Letter from Needham to Tisdale incorporating points made by Winch.

B.19

1941-1942; 1942-1943.

1935 March - June. Includes letter to the Secretary General of the Rockefeller

Needham received awards for both these periods but in neither case was able to spend all the grant money and returned the unspent balance to the Royal Society.

B.20

Notice of award of Royal Society grant to F.G. Hopkins from the Messel Fund, 17 November 1938; 'Report to the Royal Society on the grant made to Sir F.G. Hopkins for the work of Dr J. Needham and Mr C.H. Waddington on chemical aspects of organiser phenomena in amphibia (1938-1939)' by Needham.

B.25

July - August. Chiefly re support for C.H. Waddington. Also includes 2-pp typescript draft of Needham's Memorandum to the Vice-Chancellor and the Council of the Senate on the question of the extension of the Biochemical Laboratory.

Rockefeller Foundation

B.26

In 1934 the Rockefeller Foundation expressed its intention to fund work in the areas of embryology and genetics. Needham sought support from the Foundation for a research institute to bring together the various aspects of embryology then being studied in Cambridge. However, concern in Cambridge over the number of medical students entering the university (which included some studying in the biochemistry department) led to the plans for the institute being suspended in October 1936. The correspondence and papers document proposals put forward and negotiations arising.

B.27

B.28

There is also a little material relating to Needham's attempts to find funding at a more modest scale for his own and his colleagues' embryological research, and correspondence and papers from 1940 relating to the Foundation's concern for the future of science in the event of Nazi victory in Europe.

Needham reported news from Poland, rather than Germany, on political grounds. However, on receipt of Bayet's offer for over £400,000 in expenses to be set against the Royal Society grant, Dr W. Howland, a close friend of Needham in Cambridge, suggested the figure was far too high. Bayet wrote to Needham explaining his expenses and defending his integrity.

1939-1940

B.17

1940-1941

B.18

1941-1942, 1943-1944

B.19

Needham received awards for both these periods but in neither case was able to spend all the grant money and returned the unspent balance to the Royal Society.

Notice of award of Royal Society grant to F.G. Hopkins from the Medical Fund, 17 November 1938. Report to the Royal Society on the grant made to Sir F.G. Hopkins for the work of Dr J. Needham and Mr C.H. Waddington on chemical aspects of organismic phenomena in embryos (1938-1939) by Needham.

B.20

Rockefeller Foundation

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Cambridge University

B.21-B.30

Correspondence, chiefly with officials of the Rockefeller Foundation, and papers *re* the plans for the institute and grants to Needham and his researchers.

B.21

1934. Includes 14pp draft letter to W.E. Tisdale, Assistant Director of the Foundation, setting out Needham's thoughts on the possible development of embryology in Cambridge with Rockefeller support. See also E.112.

B.22

1941-1942. Chiefly *re* grants to Needham for work on the shape of protein.
1935 January, February. Includes draft memorandum by D.M. Winch, *re* requirements for an institute of embryology in the area of x-ray analysis, and 6pp draft of letter from Needham to Tisdale incorporating points made by Winch.

B.23

1935 March - June. Includes letter to the Secretary General of the Faculties suggesting the vacant Jacksonian Chair of Experimental Philosophy should be filled by a 'crystal physicist', and 4pp typescript 'Concrete memorandum forwarded to Rockefeller Foundation, June 16th 1935'.

B.24

Correspondence *re* unsuccessful applications for funding 1933.
Includes correspondence with the Department of Scientific and Industrial Research, the Stewarts Trust, Leverhulme Research Fellowships Committee and the Jewish Macy-J Foundation.
1935 July - November.

B.25

1936 January - August. Chiefly *re* support for C.H. Waddington. Also includes 7pp typescript draft of Needham's 'Memorandum to the Vice-Chancellor and the Council of the Senate on the question of the extension of the Biochemical Laboratory'.

B.26

Drugs, equipment etc.
1936 September - December. Includes final version of Needham's 'Memorandum...' as sent to the Vice-Chancellor, and correspondence and papers *re* possible Rockefeller funding for an extension to the Strangeways Research Laboratory. This was linked to a proposal that Needham and C.H. Waddington's work on embryology might be done at Strangeways.

B.27

ca.1936. 11pp typescript 'Memorandum on Cambridge work on Organiser Phenomena'.

B.28

1933 November, December. Rubric: miscellanea.
1937, 1938. Includes correspondence with F.G. Hopkins *re* attempts to secure funding for research.

B.29

1924. Chemicals; pyrex glassware.

Cambridge University

Correspondence, chiefly with officials of the Rockefeller Foundation, and papers in the plans for the Institute and grants to Needham and his researches.

1934 - includes 14pp draft letter to W.E. Thelme, Assistant Director of the Foundation, setting out Needham's thoughts on the possible development of embryology in Cambridge with Rockefeller support. See also E.172.

1935 January - February. Includes draft memorandum by D.M. Whinn, in reply to a letter from Needham to Thelme incorporating points made by Whinn.

1935 March - June. Includes letter to the Secretary General of the Faculties suggesting the vacant Jacksonian Chair of Experimental Philosophy should be filled by a 'crystal physicist', and 4pp typewritten 'Concrete memorandum' forwarded to Rockefeller Foundation, June 16th 1935.

1935 July - November. Includes 14pp draft letter to the Rockefeller Foundation, dated 11th November 1935, and 14pp draft letter to the Rockefeller Foundation, dated 11th November 1935, and 14pp draft letter to the Rockefeller Foundation, dated 11th November 1935.

1936 January - August. Chiefly in support for C.H. Waddington. Also includes 7pp typescript draft of Needham's Memorandum to the Vice-Chancellor and the Council of the Senate on the question of the extension of the Biochemical Laboratory.

1936 September - December. Includes final version of Needham's 'Memorandum', as sent to the Vice-Chancellor, and correspondence and papers in possible Rockefeller funding for an extension to the Sinergways Research Laboratory. This was linked to a proposal that Needham and C.H. Waddington's work on embryology might be done at Sinergways.

ca.1936 - 14pp typescript Memorandum on Cambridge work on Organismal Phenomena.

1937, 1938. Includes correspondence with F.G. Hopkins in attempts to secure funding for research.

Cambridge University

B.29 1940. Correspondence *re* funding of science in Europe.

Early in 1940 W. Weaver of the Rockefeller Foundation wrote to American colleagues asking them to suggest areas of science where Europeans were making the sole or significant progress, and to name individuals of key importance. He passed the results on to J.S. Huxley for information who circulated them to Needham and others.

B.30 1941-1942. Chiefly *re* grants to Needham for work on the shape of protein molecules.

B.41 1937, 1942. Importation of insects; scientific instruments.

Other grants

B.31 Accounts etc for 'Special grant 1934-5' to C.H. Waddington.

B.32 Correspondence *re* unsuccessful applications for funding 1938.

Includes correspondence with the Department of Scientific and Industrial Research, Sir Halley Stewart Trust, Leverhulme Research Fellowships Committee and the Josiah Macy Jr Foundation,

B.33 Draft application for research work on organiser phenomena. ca.1939.

Drugs, equipment etc

Correspondence and papers, 1922-1942.

B.34 1922. Chemicals; universal Condenser; micro-dissection apparatus; inositol.

B.35 1923 June, July, October. Rubber; laboratory rats.

B.36 1923 November, December. Rubber; mistletoe.

B.37 1924. Chemicals; pyrex glassware.

Cambridge University

1940. Correspondence in funding of science in Europe	8.38
Early in 1940 W. Weaver of the Rockefeller Foundation wrote to American colleagues asking them to suggest areas of science where Europeans were making the most or significant progress, and to name individuals of key importance. He passed his results on to J.E. Hurley for information who circulated them to Neelam and others.	8.39
1941-1942. Clearly a grant to Neelam for work on the shape of protein molecules.	8.40
Over grants	8.41
Accounts for Special grant 1934-5 to C.H. Waddington	8.42
Correspondence in unsuccessful applications for funding 1938.	8.43
Includes correspondence with the Department of Scientific and Industrial Research, Sir Henry Stewart Trust, Laverham Research Fellowship Committee and the Josiah Macy Jr Foundation.	8.44
Draft application for research work on organic phenomena, ca. 1938.	8.45
Drugs, equipment etc	8.46
Correspondence and papers, 1932-1942.	8.47
1932. Chemicals; universal Condenser; micro-dissociation apparatus; mastic.	8.48
1933 June, July, October. Rubber; laboratory etc.	8.49
1933 November, December. Rubber; mastic.	8.50
1934. Chemicals; pyrex glassware.	8.51

Cambridge University

- B.38 1925. Micro-camera; colour reproduction.
- B.39 1926-1930, nd. Fish etc from Scottish Marine Biological Association, Millport; chemicals; micro-dissection apparatus; other scientific instruments.
- B.40 Printed sales material for optical equipment, 1920s.
- B.41 1937, 1942. Importation of insects; scientific instruments.

Lectures

The papers in this section were found in Needham's folders. The material was principally used by Needham for updating his lectures on biochemistry to postgraduates.

The folders bore Needham's inscriptions listing the subjects covered by the material in the folders and usually an abbreviation referring to the course for which the material was pertinent. The abbreviations 'CB', 'CP' and 'CPB' refer to courses in comparative biochemistry, 'CE' or similar refers to a course in Chemical Embryology, 'IRA' to biochemical aspects of Integration, Regulation and Adaptation, and 'CE/IRA' to a combined course in the two given in the mid-1960s. These folders were in some cases also numbered. Some of the material was used in more than one course. A number of folders are very heavily inscribed and therefore have themselves also been preserved. Some of the material was also used by Needham in the preparation of his 1955 review article in the *Annual Review of Physiology* 17 (see F.353, F.354) - many folders bear the inscription 'ARP 54/55' or similar.

The material is chiefly bibliographical references, notes on the literature and offprints. Many of the offprints have been annotated by Needham, some extensively, and some offprints have manuscript notes intercalated. The bulk of the material dates from the 1950s and 1960s although there is older material in some of the folders. There are also syllabuses and instructions for practical work.

The catalogue entries give the abbreviation (where possible) and the main titles found on the folders.

B.42-B.116 Comparative Biochemistry

B.117-B.145 Chemical Embryology

Cambridge University

1925. Micro-analytical colour spectrophotometer	E.30
1925-1930. The First etc. from Scottish Medical Biological Association	E.30
1925-1930. Micro-analytical colour spectrophotometer, other scientific instruments	
Printed notes material for optical equipment, 1925-30	E.40
1937, 1942. Implication of insect, scientific instruments	E.41

Lectures

The papers in this section were found in Needham's folders. The material was principally used by Needham for updating his lectures on biochemistry to postgraduates.

The folders bore Needham's handwritten listing the subjects covered by the material in the folders and usually an abbreviation relating to the course for which the material was pertinent. The abbreviations 'CB', 'CP' and 'CPS' refer to courses in comparative biochemistry, 'CE' or similar refers to a course in Chemical Embryology, 'IRA' to biochemical aspects of integration, 'Regulation and Adaptation' and 'CEIRA' to a combined course in the two given in the mid-1960s. These folders were in some cases also numbered. Some of the material was used in more than one course. A number of folders are very heavily indexed and therefore have themselves also been preserved. Some of the material was also used by Needham in the preparation of his 1965 review article in the Annual Review of Physiology 27 (see F.353, F.354) - many folders bear the inscription 'ARP 2425' or similar.

The material is chiefly bibliographical references, notes on the literature and offprints. Many of the offprints have been annotated by Needham, some extensively, and some offprints have manuscript notes intercalated. The bulk of the material dates from the 1950s and 1960s although there is older material in some of the folders. There are also syllabuses and instructions for practical work.

The catalogue entries give the abbreviation (where possible) and the main titles found on the folders.

E.42-B.116 Comparative Biochemistry

E.117-B.148 Chemical Embryology

Cambridge University

B.146-B.174 (Biochemical aspects of) Integration, Regulation and Adaptation

B.175-B.193 Chemical Embryology/Integration, Regulation and Adaptation

B.194-B.229 Other folders

B.230 Crystallography

Comparative Biochemistry

B.42 'CP/Practical etc (old)'. Includes material *re* teaching comparative biochemistry 1934; correspondence from E.J. Allen, Director of Marine Biological Association Plymouth Laboratory, *re* supply of specimens, February 1935; timetables for Part II lectures Michaelmas term 1941 and Lent term 1942; list of 'Part II course criticisms'; manuscript notes.

B.43-B.47 'General & introductory CP/1 biochemistry and evolution'.

B.43 'Biochemistry Post-Graduate course' on comparative biochemistry, 6pp typescript, 1 March 1954; manuscript notes on course and students 1957-1960.

B.44 Manuscript and typescript notes.

B.45 'Fifties new discoveries "sensations" ': chiefly press-cuttings, offprints *re* discovery of living coelacanth.

B.46 'Oceanography & Unology CP2'. Manuscript notes; offprints. 4 folders.

B.46 Offprints by M. Florkin.

B.47 'Kidney excretion papers CP2'.

B.47 Offprints by others.
Manuscript notes; offprints by H.W. Smith.

B.48, B.49 'Comp. Biochem. of Vision CP/1'. Offprints of G. Wald. 2 folders.

Cambridge University

- B.50-B.52 'Comp. Biochem of Vision Retinene etc CP/1'.
B.50 Manuscript notes.
B.51 Offprints by Wald.
B.52 Offprints by others.
B.53 'Phosphagens CP/1'. Manuscript notes; offprints.
B.54 'CP/1 phylogenetic phenomena'. Manuscript notes; offprints.
B.55, B.56 'CP/1 Offprints'. 2 folders.
B.57, B.58 'Chem. ecol. CP/1 or 2'.
B.57 Manuscript notes; offprints.
B.58 Offprints by G.E. Hutchinson.
B.59 'Accumulators Mg, Al, As, Sr esp V, Ni CP/2'. Manuscript notes; offprints.
B.60-B.63 'Oceanography & Limnology CP/2'. Manuscript notes; offprints. 4 folders.
B.64, B.65 'Kidney excreta papers CP/3'.
B.64 Manuscript notes; offprints by H.W. Smith.

Cambridge University

Comp. Biochem. of Water: Patterns and CPT	850.8.52
Manuscript notes	850
Offprints by Ward	851
Offprints by others	852
Prolegomena: CPT: Manuscript notes; offprints	853
CPT phenomena: Manuscript notes; offprints	854
CPT Offprints: 2 folders	855, 856
'Chem. ecol. CPT or Z'	857, 858
Manuscript notes; offprints	859
Offprints by G.E. Hutchinson	860
'Accumulators Mg, Al, As, Sr, V, Ni, CPT: Manuscript notes; offprints	861
Geography & Limnology CPT: Manuscript notes; offprints: 4 folders	862-865
Kidney exam papers CPT	866, 867
Manuscript notes; offprints by H.W. Smith	868

Cambridge University

- B.65 Offprints by others.
- B.66-B.69 'Osmoregulin papers CP/3'.
- B.66 Manuscript and typescript draft ?for lecture on 'int. & ext. medium habita[?t] water-reins', includes one page dated 1944; manuscript graphs, notes.
- B.67 Offprints by J.A. Ramsay.
- B.68 Offprints by V.B. Wigglesworth.
- B.69 Offprints by others.
- B.70 'Osmoregn 1 CP/'. Manuscript notes.
- B.71-B.73 'Osmoregn 2 CP/3'.
- B.71 Manuscript notes and tables.
- B.72 Offprints by J.D. Robertson.
- B.73 Offprints by others.
- B.74-B.76 'Osmoregn 3 & resp[iratio]n'.
- B.74 Manuscript notes.
- B.75 'Lipids, sterols & waxes. Fats CP'. Letter from N.W. Pirie re evolution and fat composition; manuscript notes; offprints.
- B.76 'Lectures on sterols and related substances'.

Offprints by others.	B.88	
Comonogen papers CPB.	B.88-B.89	
Manuscript and typescript data for lecture on Vol. 8 ext. medium (1944) manuscript graphs, notes	B.89	
Offprints by J.A. Ramsey.	B.87	
Offprints by V.B. Wigglesworth.	B.88	
Offprints by others.	B.89	
Comonogen 1 CPB. Manuscript notes.	B.70	
Comonogen 2 CPB.	B.71-B.73	
Manuscript notes and tables.	B.71	
Offprints by J.D. Robertson.	B.72	
Offprints by others.	B.73	
Comonogen 3 & reprints/notes.	B.74-B.76	
Manuscript notes.	B.74	

Cambridge University

- B.75 Offprints by J.R. Robinson. 'Advanced class'.
- B.76 Offprints by others. 'Metabolic rate of hydrocarbons'; duplicated typescript formulae and manuscript list of hydrocarbons.
- B.77-B.79 'Transition water-land CP/3'.
'Nitrogen bases CP'.
- B.77 Manuscript notes.
Typescript lecture notes and tables on trimethylamine oxide, choline, betaines and other compounds, paginated 1-102. 3 folders.
- B.78 Offprints by P.F. Scholander.
Manuscript notes, offprints.
- B.79 Offprints by others.
'Nitrogen excretion CP/ mem Some notes in CE prot exor. file'
- B.80-B.82 'Transition water-land metabolic rate adaptation'. Manuscript notes; offprints. 3 folders. + figures and tables (not slides).
- B.83 'Animal luminescence CP/'. Manuscript notes; offprints.
- B.84 'Inorg. metab. CP/'. Manuscript notes; offprints.
- B.85, B.86 'Insect waxes & water-loss CP/'.
- B.85 Manuscript notes; offprints.
- B.86 Offprints by V.B. Wigglesworth.
- B.87 'Lipins, sterols & waxes Fats CP/'. Letter from N.W. Pirie re evolution and fat composition; manuscript notes; offprints.
- B.88, B.89 'Lectures on sterols and related substances'.

Cambridge University

- B.88 Manuscript lecture notes for 'Advanced class'.
Manuscript notes; offprints.
- B.89 Manuscript notes on 'Metabolic rate of hydrocarbons'; duplicated typescript formulae and manuscript list of hydrocarbons.
paginated 12-21, + figures; manuscript notes; offprints.
- B.90-B.93 'Nitrogen bases CP/'.
'Respn & Resp. pigments' CP/.
- B.90-B.92 Typescript lecture notes and tables on trimethylamine oxide, choline, betaines and other compounds, paginated 1-102. 3 folders.
'Carbohydrate metabolism CP/'. Manuscript notes; offprint.
- B.93 Manuscript notes; offprints.
'CPD/8 nutrition general digestion'. Manuscript notes and offprints (chiefly by D.A. Waterhouse and R.F. Postng). 2 folders.
- B.94-B.97 'Nitrogen excretion CP/ mem Some notes in CE prot excr. file'.
'CPD/8 Synthesis in reln to digestive enzymes'. Manuscript notes; offprints.
- B.94 27pp typescript notes + figures and tables (?for slides).
- B.95 Manuscript notes on nitrogen excretion in various classes of animals.
- B.96, B.97 Offprints. 2 folders.
Issue of Research Today 3 (1948) on 'The Chemistry of B vitamins' with offprints intercalated.
- B.98, B.99 'Nitrogen metabolism enzymes etc CP/'.
Offprints by others.
- B.98 Manuscript notes.
Offprints by others.
- B.99 Offprints.
'Comp. Bloch Practical'.
- B.100 'pH reguln & anaerobiosis CP/'. Manuscript notes.
1928-1934, chiefly re specimens and supply of fish etc; printed information re aquaria; list of demonstrations for comparative biochemistry; course description for environmental biology; duplicated typescript instruction sheets.
- B.101 'Pigments (other than anthraquinone) (may follow on from sterols etc) CP/'.
Manuscript notes; offprints.

Cambridge University

- B.102 B.116 'Pigments, anthraquinone (for following up quinons and tanning)'. Manuscript notes, offprints.
- B.103 'Pigments, lipochromes carotenoids'. Typescript notes on carotenoids, paginated 12-21, + figures; manuscript notes; offprints.
- B.104 'Respn & Resp. pigments' CP/. Needham's lectures 1928 (for course titled 'Chemical aspects of growth and differentiation. (Metazoa)'), 1933-1934, 1953, 1956, 1961, 1963 and nd.
- B.105 'Carbohydrate metabolism CB/'. Manuscript notes; offprint.
- B.106, B.107 'CPB/8 nutrition general digestion'. Manuscript notes and offprints (chiefly by D.A. Waterhouse and R.F. Powing). 2 folders.
- B.108, B.109 'CPB/8 Symbionts in reln to digestive enzymes'. Manuscript notes; offprints. 2 folders.
- B.110 B.112 'CPB/8 Symbionts in relation to synthesis of essential food substances'.
- B.110 Issue of *Research Today* 3 (1946) on 'The chemistry of B vitamins' with manuscript notes and offprints intercalated.
- B.111 Offprints by G. Fraenkel. 1'. Manuscript notes; offprints; figures.
- B.112 Offprints by others. 2'. Duplicated typescript lists of dehydrogenases, the glycolysis system, flavoproteins; manuscript notes.
- B.113-B.116 'Comp. Bioch Practical'.
- B.113 Schedule of work for advanced class, 1933 and 1934; correspondence 1928-1934, chiefly re specimens and supply of fish etc; printed information re aquaria; list of demonstrations for comparative biochemistry; course description for experimental biology; duplicated typescript instruction sheets for biochemistry practical work.

Cambridge University

B.105	Pigments, autophosphorylation for following up protein and protein; Manuscript notes, offprints
B.103	Pigments, autophosphorylation, Type 1 notes on autophosphorylation; 12-27, + 12-28, manuscript notes, offprints
B.104	Pigment A and B, pigments, CPT
B.106	Pigment A and B, pigments, CPT; Manuscript notes, offprints
B.106, B.107	CPTB nutrition general, digestion; Manuscript notes and offprints (only by D.A. Wainhouse and R.F. Powling, 2 folders)
B.108, B.109	CPTB symptoms in relation to digestive enzymes; Manuscript notes, offprints, 2 folders
B.110-B.112	CPTB symptoms in relation to synthesis of essential food substances
B.110	Issue of Research Today 2 (1946) on 'The chemistry of B vitamins' with manuscript notes and offprints intercalated
B.111	Offprints by G. Frenkel
B.112	Offprints by others
B.113-B.118	Comp. Bloch Practical
B.119	Schedule of work for advanced class, 1933 and 1934; correspondence 1928-1934, chiefly re specimens and supply of fat etc; printed information re apparatus; list of demonstrations for comparative biochemistry; course description for experimental biology; duplicated typewritten instruction sheets for biochemistry practical work

Cambridge University

- B.114-B.116 Manuscript notes; duplicated typescript instruction sheets. 3 folders.
- Chemical Embryology**
- B.117, B.118 'Chemical embryology O.S. CE/1'.
- B.117 Syllabuses and schedules of Needham's lectures 1928 (for course titled 'Chemical aspects of growth and differentiation. (Metazoa)'), 1933-1938, 1953, 1956, 1961, 1963 and nd.
- B.118 Manuscript notes; Needham's envelope containing 'Pictures I want lantern slides of'; booklet of biological and anatomical natural history models sent to Needham 1934.
- B.119 'Absorption (role of membranes yolk structure etc) CE/1'. Manuscript notes; offprints.
- B.120 'Egg Chem. Constit. Normal developmt CE/1'. Manuscript notes; offprints.
- B.121 'Constit & Cleidocity CE/1'. Letter from M. Lafon, 1948, *re* work on chemical embryology; manuscript notes.
- B.122 'Water & pH relations CE/1'. Manuscript notes; offprints; figures.
- B.123 'Egg Carb Metab CE/2'. Duplicated typescript lists of dehydrogenases, the glycolysis system, flavoproteins; manuscript notes.
- B.124 'Egg Fats, Lipins, Steroids Metab. CE/2'. Manuscript notes; offprints; figures.
- B.125 'Egg P, Ca Metab CE/2'. Manuscript notes; offprints.

8.114-8.116	Manuscript notes, duplicated typescript notebook sheets 3 folders
8.117, 8.118	Chemical embryology G.B. CEZ.
8.117	Syllabus and schedule of Needham's lectures 1958 (for course titled 'Chemical aspects of growth and differentiation (Metabolism)', 1953-1958, 1953, 1958, 1961, 1962 and on).
8.118	Manuscript notes; Needham's envelope containing Figure 1 with letter dated 1954; booklet of biological and anatomical natural history notes sent to Needham 1954.
8.119	'Absorption (role of membranes, yolk structure etc) CEZ'. Manuscript notes; offprints.
8.120	'Egg Chem. Control. Normal development CEZ'. Manuscript notes; offprints.
8.121	'Control & Cytodiversity CEZ'. Letter from M. Laiton, 1948, re work on chemical embryology; manuscript notes.
8.122	'Water & pH relations CEZ'. Manuscript notes; offprints; figures.
8.123	'Egg Carb. Metab. CEZ'. Duplicated typescript lists of dehydrogenases, the glycolysis system, flavoproteins; manuscript notes.
8.124	'Egg Fats, Lipids, Steroids Metab. CEZ'. Manuscript notes; offprints; figures.
8.125	'Egg P, Ca Metab. CEZ'. Manuscript notes; offprints.

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- B.126 'Carbo. glycogen Claude Bernard onwards CE/2'. Manuscript notes; figures.
- B.127 'Horm - blood-sugar - especially relating to carbo-metab. CE/2'. Manuscript notes; offprint.
- B.128 'Vit CE/2'. Manuscript notes; offprint.
- B.129 'Energetics CE/3'. Manuscript notes.
- B.130 'Egg catabolism Respn Metab. rate CE/3, 4'. Manuscript notes; offprints.
- B.131 'Chem diffn of special tissues CE/4'. Material *re* Ph.D. examination (on the biochemistry of muscle development) 1951; manuscript notes; offprints.
- B.132 'Egg Growth differentiation determination heteranxesis CE/4'. Manuscript notes; figures; offprints, with letters *re* offprints 1955 and 1965.
- B.133 'Egg Prot[ein] Metab Anabolic CE/4'. Manuscript notes; offprints.
- B.134 'Prot. Metab. Anabolic [...] CE/4'. Manuscript notes; offprint.
- B.135 'Prot. Metab. catabolic N-excm etc CE/4'. Manuscript notes; offprints.
- B.136 'Spiegelman [...] CE/4'. Manuscript and typescript notes on work by S. Spiegelman; offprint by Spiegelman.
- B.137 'Feather formation CE/5'. Manuscript notes 1940s.

8.126	Cardio-vascular system: general aspects CEF. Manuscript notes; figures.
8.127	Home - blood sugar - especially relating to cardio-metab. CEF. Manuscript notes; figures.
8.128	VI CEF. Manuscript notes; figures.
8.129	Endocrine CEF. Manuscript notes.
8.130	Egg metabolism. Respir. Metab. into CEF 4. Manuscript notes; figures.
8.131	Chem. diff. of special tissues CEF. Metab. in P.D. examination (on the biochemistry of muscle development) 1951; manuscript notes; figures.
8.132	Egg growth differentiation determination. Metabolism CEF. Manuscript notes; figures, with letters to figures 1955 and 1957.
8.133	Egg Protein Metab. Anabolic CEF. Manuscript notes; figures.
8.134	Prot. Metab. Anabolic [...] CEF. Manuscript notes; figures.
8.135	Prot. Metab. catabolic N-exam etc CEF. Manuscript notes; figures.
8.136	Spiegelman [...] CEF. Manuscript and speech notes on work by S. Spiegelman; offprint by Spiegelman.
8.137	Father formation CEF. Manuscript notes 1949.

Cambridge University

- B.138, B.139 'Placenta CE/6'.
- B.138 Letter from A. St G. Huggett, 21 February 1931, with his comments on the proofs of Needham's section on 'Biochemistry of the placental barrier' in *Chemical Embryology*, with copy of the section; correspondence with A.H. Gordon *re* amino-acid levels in the amniotic and allantoic fluids, 1961.
- B.139 Manuscript notes; offprints.
- B.140-B.145 'Nuclear - cytoplasmic relations'.
- Needham's folders so inscribed. These folders were also all inscribed 'transferred to CE', and with titles and other notes reproduced in the catalogue entries.
- B.140 'Classical work DNA & RNA invertebrate (holoblastic equal) ech[inoderms]. moll[uscs]'. Manuscript notes; offprints.
- B.141 'DNA & RNA amphib unequal holoblastic'. Manuscript notes; offprints.
- B.142 'DNA RNA synth. dg. emb. devel. Chick (classical chem. NPR) (meroblastic)'. Manuscript notes; figures.
- B.143 'NPR mamm. tissues & tiss-cults (relns of other entities to DNA; Davidson et suis)'. Manuscript notes; offprints by J.N. Davidson.
- B.144 'Developmental block [...]'. Manuscript notes; offprints.
- B.145 'Metab. of nucleate and non-nucleate fragments of cells'. Manuscript notes; offprints by J. Brachet.

Cambridge University

Plasma CE	B.138, B.139
Letter from A. G. Huggins, 21 February 1981, with the comments on the proofs of Huggins's section on 'The chemistry of the plasma state', in Chemical Engineering, with copy of the section, correspondence with A.H. Gordon re amino acid levels in the amino acid analysis, 1981.	B.138
Manuscript notes; offprints	B.139
Notes - cytoplasmic network	B.140-B.142
Huggins's notes as received. These notes were also all included transferred to CE, and other files and other notes reproduced in the catalogue entries.	B.140
Classical work: DNA & RNA synthesis (holoblastic eggs) actinodermis; manuscript notes; offprints.	B.141
DNA & RNA synthesis: unipolar holoblastic; Manuscript notes; offprints	B.142
DNA RNA synth. dev. emb. devel. Chick (classical chem. NRP) (metabolic); Manuscript notes; figures.	B.143
NRP mamm. tissues & tissue culture (notes of other entries to DNA; Davidson et al.); Manuscript notes; offprints by J.M. Davidson.	B.144
Developmental block [...]; Manuscript notes; offprints.	B.145
Notes: of nucleole and non-nucleole fragments of cells; Manuscript notes; offprints by J. Bracher.	B.146

Cambridge University

- B.145 (Biochemical aspects of) Integration, Regulation and Adaptation
notes, duplicated typescript papers on work of J. Comandon and P. De Fontenay
- B.146-B.149 '[...] Metabolic Integration, Regulation & Adaptation in Multicellular organisms standing orders IRA/1'.
- B.146 'Mitochondria Golgi bodies Cleavage asters IRA/2'. Manuscript notes:
Needham's manuscript notes of lectures on 'Physico-Chemical Cytology' given by R.A. Peters, dated 1921.
- B.147 'Nuclear-cytoplasmic relations [...] IRA/2'. Manuscript notes; offprints.
Manuscript and typescript summaries, schedules etc for courses 1950-1952. Includes exchange with F.G. Young *re* length of Needham's course.
- B.148 'Ultramicrochemical techniques in general Cylinder technique IRA/2. Manuscript notes; offprint.
Manuscript and typescript summaries, schedules etc for courses 1953-1957 and nd.
- B.149 'Ultramicrospectrometry (mainly protozoa) IRA/2 [and GE/5]. Manuscript notes; offprint.
'Recent advances in the biochemistry of organiser phenomena in vertebrate embryology', Prague, 1957.
- B.150 'Lists of topics (in English and Czech) and slides. *in* Histochemistry IRA/3'. Manuscript notes; offprint.
- B.151 'General & theoretical IRA/1'. Manuscript and typescript notes, some relating to history of study in the area.
- B.151 'Analysis of cell structure and function [...] IRA/1'. Manuscript notes.
B.152-B.154 'Biochem & morphogenesis facts Prim & Sec Organs IRA/3'.
- B.152 'Subcellular morphology and biochemistry IRA/1'. Manuscript notes; offprint; duplicated sheets for Part 1B biochemistry course.
Symposium March 1951' (see also H.55; manuscript notes (in French) for 3 lectures at Lyons April 1951' (see also H.57). 'Suggested breakdown of 4 lectures on morphogenesis and differentiation.' 21 December 1951.
- B.153 'Histochem (sensu stricto) IRA/1 or 2'. Manuscript notes.
- B.154 'Claude etc [...] IRA/2'. Manuscript notes on pioneering work of A. Claude.
- B.154 Offprints by Needham.

Cambridge University

- (Biochemical aspects of integration, regulation and adaptation)
- [...] Blackboard integration, Regulation & Adaptation in Microbial organisms, including notes IRAT.
- Needham manuscript notes of lectures on Physico-Chemical Biology given by R.A. Palmer, dated 1957.
- Manuscript and typescript summaries, schedules etc for courses 1955-1957. Includes exchange with F.G. Young in length of Needham's course.
- Manuscript and typescript summaries, schedules etc for courses 1955-1957 and nd.
- Recent advances in the biochemistry of organismic phenomena in vertebrate embryology, Prague, 1957.
- List of topics (in English and Czech) and slides.
- General & theoretical IRAT. Manuscript and typescript notes, some relating to history of study in the area.
- Analysis of cell structure and function [...] IRAT. Manuscript notes.
- Subcellular morphology and biochemistry IRAT. Manuscript notes; offprint; duplicated sheets for Part 1B biochemistry course.
- Histochem (various slides) IRAT or Z. Manuscript notes.
- Claude etc [...] IRAT. Manuscript notes on pioneering work of A. Claude.

Cambridge University

- B.155 'Micro-manipulation microdissection & microinjection IRA/2'. Manuscript notes; duplicated typescript papers on work of J. Comandon and P. De Fonbrune.
- B.156 'Mitochondria Golgi bodies Cleavage asters IRA/2'. Manuscript notes; offprints.
- B.157 'Nuclear-cytoplasmic relations [...] IRA/2'. Manuscript notes; offprints. and with those reproduced in the catalogue entries and other notes.
- B.158 'Ultramicrochemical techniques in general Cylinder technique IRA/2'. Manuscript notes; offprint.
- B.159 'Ultramicrorespirometry (mainly protozoa) IRA/2 [and CE/5]'. Manuscript notes; offprint.
- B.160 'Acetabularia biochemical work Brachet et suis Hämmerling epigoni IRA/3'. Manuscript notes; offprint.
- B.161 'Amp prim. org[anise]r biochem. mech. of induction contd IRA/3'. Manuscript notes; offprints.
- B.162-B.164 'Biochem & morphogenesis lects Prim & Sec Organisers IRA/3'. Manuscript notes; offprints.
- B.162 Duplicated typescript list of lectures and Needham's manuscript notes on lectures by C.P. Raven and J. Pasteels at 'Edinburgh Entwicklungsmechanik Symposium March 1951' (see also H.83); manuscript notes (in French) for '3 lectures at Lyon April 1951' (see also H.84); 'Suggested breakdown of 4 lectures on morphogenesis and differentiation...', 21 December 1961.
- B.163 'Anisometric molecules Flow birefringence and anomalous viscosity [...] IRA/3'. Manuscript notes; offprints; etc.
- B.164 'Plant inducible hormones IRA/3'. Manuscript notes; offprints; request from Offprints by Needham. Plant Physiologists to comment on recommendations for terminology of chemical regulators in plants, 1952.

- Micro-manipulation, microdissection & microinjection IRVZ. Manuscript notes; duplicated typescript papers on work of J. Constant and P. De Forbani. B.163
- Mitochondria (high bodies) Cloninger notes IRVZ. Manuscript notes; offprint. B.164
- Nuclear-cytoplasmic relations [] IRVZ. Manuscript notes; offprint. B.165
- Ultramicrochemical techniques in general. Cytolysis technique IRVZ. Manuscript notes; offprint. B.166
- Ultramicrochemistry (mainly protozoa) IRVZ [and CEF]. Manuscript notes; offprint. B.167
- 'Acetabularia' biochemical work. Bimble et al. Hämmerling epigoni IRVZ. Manuscript notes; offprint. B.168
- 'Amp. pfm. organellae' - biochem. mech. of induction could IRVZ. Manuscript notes; offprint. B.169
- Biochem & morphogenesis loca. Pym & Sec Organism IRVZ. B.170-B.174
- Duplicated typescript list of lectures and Hämmerling's manuscript notes on lectures by G. R. Raven and J. Pasteels at Edinburgh Entwicklungsmechanik Symposium March 1957 (see also H.83); manuscript notes (in French) for 3 lectures at Lyon April 1957 (see also H.84); 'Suggested breakdown of 4 lectures on morphogenesis and differentiation...'; 21 December 1957. B.175
- Manuscript notes; offprint; etc. B.176
- Offprint by Hämmerling. B.177

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- B.165 'Enzyme-profiles nucleus & cytoplasm IRA/3'. Manuscript notes; offprint.
- B.166 'Subcellular morphol. & biochem. [...] IRA/3'. Manuscript notes, including notes on lecture by de Duve 5 March 1954.
- B.167-B.169 'Nuclear-cytoplasmic relations'.
Needham's folders so inscribed. These folders were also inscribed 'IRA/4' and with titles reproduced in the catalogue entries and other notes.
- B.167, B.168 'General picture DNA RNA functions [...]'.
Manuscript notes; duplicated typescript reference lists for lectures on biosynthesis in micro-organisms.
- B.168 Offprints.
- B.169 'Isolation and transplantation [...]'. Manuscript notes; offprints.
- B.170 'Parthenogenesis Einsele-Shaver ribonuclease as anti-mitotic'. Manuscript notes; offprints.
- B.171 'Secondary conductors IRA/5-7'. Manuscript notes; offprint.
- B.172 'Toivonen [...] IRA/5-7'. Manuscript notes.
- B.173 'Anisometric molecules Flow birefringence and anomalous viscosity [...] IRA 5'. Manuscript notes; offprints.
- B.174 'Plant inductors hormones IRA/8'. Manuscript notes; offprints; request from American Society of Plant Physiologists to comment on recommendations for terminology of chemical regulators in plants, 1952.

Cambridge University

Chemical Embryology/Integration, Regulation and Adaptation

These folders were found between two markers indicating the 'Beginning' and the 'End of combined CE/IRA 63 65'.

- B.175 'CE/IRA'. Manuscript outline of course October 1965.
- 'Concluding ideas'. Manuscript 'table for conclusion of whole IRA course'.
- B.176 'before Am ϕ prim org[anise]r [...] IRA/2'. Manuscript notes.
- B.177 'Amphib primary organiser RNA proteins fractionation CE/IRA 65'. Manuscript notes, some from 'JEEM conference' April 1957.
- B.178 'Amphib primary organiser RNA proteins and transmission CE/IRA 65'. Manuscript notes; offprints.
- B.179 'Anisometric molecules fibrillar protoplasmic structure [...] IRA/7'. Manuscript notes; offprints.
- B.180 'Anisometric molecules other fibrillar structures [...] IRA/5'. Manuscript notes; offprints.
- B.181 'Dissociability of fundamental processes IRA CE/5'. Manuscript notes; proofs of article by Needham 'Dissociability of fundamental processes', *Biological Reviews* 8 (1933); offprints; figures.
- B.182 'Ech. development double-gradient system [...]'. Manuscript notes.
- B.183 'Hormones Inverts in gen. Crust IRA/10'. Manuscript notes; offprints.

Chemical Embryology, Regulation and Adaptation

These tables were found between two numbers indicating the 'Beginning' and the 'End of combined CEIRA 85'.

'CEIRA' Manuscript outline of course October 1985.

'Concluding ideas' Manuscript table for conclusion of whole IRA course.

Before Ampin organizer [...] IRAV. Manuscript notes.

'Ampin primary organizer RNA protein fractionation CEIRA 85'. Manuscript notes, some from 'JEM conference' April 1987.

'Ampin primary organizer RNA protein and transmission CEIRA 85'. Manuscript notes; offprints.

'Anomalous molecules (further protoplasmic structure [...] IRAV'. Manuscript notes; offprints.

'Anomalous molecules other (further structures [...] IRAV'. Manuscript notes; offprints.

'Dissociability of fundamental processes IRA CEV'. Manuscript notes; parts of article by Neale 'Dissociability of fundamental processes', Biological Reviews 6 (1981); offprints; figures.

'Ear development double-gradient system [...] Manuscript notes.

'Hormones involve in gen. Cnat IRAV'. Manuscript notes; offprints.

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- B.184-B.186 'Insect metamorphosis' and 'Biochem. of scaffolding structures (larval and pupal life)'.
Needham's folders so inscribed. These folders were also inscribed with titles, which are reproduced in the catalogue entries, and other notes.
- B.184 'Biochem & metab. during CE/6'. Manuscript notes; duplicated typescript sheets; offprints.
- B.185 'Hormones reviews and ideas IRA/10 & CE/8'. Manuscript notes; offprints.
- B.186 'Hormones papers IRA/10 & CE/8'. Manuscript notes; offprints.
- B.187 '[...] Lithium story [...]'. Manuscript notes.
- B.188 'Mitosis (birefringence [...]) IRA/7'. Manuscript notes; offprints.
- B.189 'Mitosis mitotic inhibitors [...] IRA/ temporarily omitted'. Manuscript notes; offprints.
- B.190 'Mosaic egg biochem. Intracellular polar lobe inductions'. Manuscript notes; offprint.
- B.191 Mosaic egg morphogen [...] IRA/2'. Manuscript notes; offprints.
- B.192 'Niu papers CE/IRA 65'. Manuscript notes on work by M. C. Niu.
- B.193 'Structure-proteins [...] IRA/5 & CE 4'. manuscript notes; offprint.
- B.203 'Fructose story [...]'. Manuscript notes; offprint.

Cambridge University

Other folders

These folders were found with those listed above but are not marked with a course abbreviation. In many cases, however, the contents relate directly to topics covered in Needham's biochemistry courses.

- B.194 'Acquired tolerance Ontogenetics of antibody forms [...]'. Correspondence and papers *re* Ph.D. examination (on the effects of embryonic environment on post-hatching development of chicks) 1956; offprints.
- B.195 'Alk. phosphatase story from utilisation of Ca of shell in bone-formation'. Manuscript notes; offprints.
- B.196 'Amphib. metamorph. omitted 1956'. Manuscript notes.
- B.197, B.198 'Analogue - molecule specific inhibitors and radiomimetic cpds etc'.
- B.197 Manuscript notes, including notes ?on lectures by R.A. Peters, 16 February 1955 and D.W. Woolley, 2 November 1955.
- B.198 Offprints.
- B.199 'Cancer fundamentals'. Manuscript notes; offprint.
- B.200 'Chondrogenetic induction [...]'. Manuscript notes.
- B.201 'CPF succession of energy-sources and reln Aq. Terr.' Manuscript notes.
- B.202 'Fertilisation phenomena and cell cohesion in general [...]'. Manuscript notes; offprints.
- B.203 'Fructose story [...]'. Manuscript notes; offprint.

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B.303	Fructose story [...]. Manuscript notes; offprint.
B.302	Fertilisation phenomena and cell cohesion in general [...]. Manuscript notes; offprint.
B.301	QPF succession of energy-sources and rein. Ad. Ten. Manuscript notes.
B.300	Chondrogenetic induction [...]. Manuscript notes.
B.299	'Cancer fundamentals'. Manuscript notes; offprint.
B.298	Notes on the history of the development of the embryo of the chick.
B.297	Offprints.
B.296	Notes on the history of the development of the embryo of the chick.
B.295	Manuscript notes, including notes for lecture by R.A. Peters, 18 February 1955 and D.W. Woolley, 2 November 1955.
B.294	'Analogue - molecule specific inhibitors and radioactive drugs etc.'
B.293	'Angiob. morphology, omitted 1955'. Manuscript notes.
B.292	'All. phosphatase story from utilization of Ca in shell in bone-formation'. Manuscript notes; offprint.
B.291	'Adapted tolerance. Chronology of antibody formation [...]. Correspondence and papers to R.H.D. examination (on the effects of embryonic environment on post-natal development of chicks) 1955. Offprint.
B.290	These folders were found with those listed above but are not marked with a course identification. In many cases, however, the contents relate directly to topics covered in Needham's biochemistry courses.
B.289	Other folders.

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- B.204 'Gastrular metab'. Manuscript notes.
- B.205 'h & t [head and tail organisers] leading to mesodermal inductor'. Manuscript notes; offprints, chiefly by Y.K. Okada and T. Hama.
- B.206-B.212 'Invert[ebate]s'.
Needham's folders so inscribed. These folders were also inscribed with titles, which are reproduced in the catalogue entries, and other notes.
- B.206, B.207 'Blood Chem. Ammonaemia Aminoacidaemia Ureaemia etc'. Offprints by M. Florkin *et al.* 2 folders.
- B.208-B.212 'Blood circn & coagn [...]'. Manuscript notes; offprints. 5 folders.
- B.213 'Nephic excretion etc and its evolution'. Manuscript notes; offprints.
- B.214, B.215 'Muscle and electric organs insect mitochondria etc'. Offprints. 2 folders.
- B.216 '[...] Non-phosph[orylating] glycolysis story'. Manuscript notes.
- B.217 'Organ disaggregations to component g/layers [...]'. Manuscript notes; offprints.
- B.218 'Plant tissue culture & the Crown-Gall problem'. Manuscript notes; photographs of 'Nétien & collabs Lyon tissue cultures of cambium of carrot', April 1951; offprints.
- B.219 'Porphyrin Hb synôthesis in emb'. Manuscript notes; offprints.
- B.220 'Regen [...]'. Manuscript notes.

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- B.221 1901 Gastric mites; Manuscript notes.
- B.222 1902 It is found that all organisms feeding on mesodermic tissues. Manuscript notes; chiefly by V.K. Ghosh and T. Hama.
- B.223 1903-1904 'Invertebrates'.
Hedberg's notes on insects. These notes were also treated with bees, which are reproduced in the catalogue entries, and other notes.
- B.224 1904-1905 Blood Chem. - Ammonia, Ammonium, Urea, etc. Offprints by M. Fisher et al. 2 folders.
- B.225 1906-1907 Blood and coagul. [...]. Manuscript notes; offprints. 5 folders.
- B.226 1908-1909 Nephric excretion etc and its evolution. Manuscript notes; offprints.
- B.227 1910-1911 Muscle and electric organs. Insect mitochondria etc. Offprints. 2 folders.
- B.228 1912 [...]. Non-phosphorylating glycolysis story. Manuscript notes.
- B.229 1913 Organ disintegrations to component glycerol [...]. Manuscript notes; offprints.
- B.230 1914 Plant tissue culture & the Crown-Gall problem. Manuscript notes; photographs of Witten & Collins Lyon tissue cultures of carcinoma of cancer, April 1951; offprints.
- B.231 1915-1916 Potassium H₂ synthesis in embryo. Manuscript notes; offprints.
- B.232 1917-1918 Fegen [...]. Manuscript notes.

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Cambridge University

- B.221 'Serol [...]'. Manuscript notes.
- B.222 'Slime moulds combination and disaggregation in each life-history'. Manuscript notes.
- B.223 'Tartar Weisz etc on Stentor'. Offprints.
- B.224 'Tissue affinities & repulsions (germ layers) Tissue movements Biochem & Metab'. Manuscript notes, including notes on ?lecture by J.K.F. Holtfreter, Oxford 16 April 1940.
- B.225 'Tissue disaggregations [...]'. Manuscript notes; offprints.
- B.226 'Tissue disaggregations [...] & recombinations [...]'. Manuscript notes.
- B.227 'Tissue & cell movements Teratomata'. Manuscript notes; offprint.
- B.228 'Tracheal respiration'. Manuscript notes; offprints.
- B.229 'Vectorial determination and detmn of spatial axes [...]'. Letter from C. Robinow enclosing photographs of micro-organisms in myelin structure, 20 June 1941; manuscript notes; offprint.

Crystallography

- B.230 Typescript 'Note on the proposed content of the new 1st-year course...Elementary Physical and Chemical Crystallography'. Nd.

Cambridge University

Requests to visit

B.231

Found with this material and kept with it are correspondence and papers relating to the Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society and the Biology War Committee.

1934-1936.

B.237

Papers of the Association of Scientific Workers. Includes rough manuscript draft by Needham of resolutions of the Cambridge branch.

B.232

1938-1949.

B.233

Biochemical Laboratory, Cambridge - Work which could be undertaken in 1954-1963. 4pp typescript with manuscript annotation, November 1938.

B.234

1964-1973. Meeting in Stungsways Laboratory, 13 September 1931. To discuss the various [research] problems suggested to decide which shall be immediately attacked [...], with annotated list of 'investigations suggested' correspondence from colleagues re war work; manuscript notes from meeting.

General and miscellaneous

B.235

Papers re Report of the Syndicate on the Medical Courses and Examination of the University, June 1932.

The Report proposed changes to the medical courses offered at Cambridge, one of which involved transferring biochemistry from the Natural Sciences Tripos to a new Medical Sciences Tripos. Needham spoke for the biochemistry department in objecting to this proposal on the grounds that it would split the department and harm biochemistry's status as a pure science.

B.240-B.242

Typescript and manuscript draft. 3 folders.

B.236

This comprises the original or refereed notes of members of the department. Correspondence and papers, 1934, re career destinations of graduates of the Cambridge biochemistry department and employment options for biochemists.

B.247

Typescript draft. 8pp with extensive manuscript correction and annotation; 8pp duplicated typescript.

B.237-B.251

Research in wartime, 1938-1942

In 1938 the Association of Scientific Workers (ASW) stressed the need for an organisation to utilise effectively science in the country's defence in wartime. On the outbreak of war it again urged the need for the efficient use of scientists. The Cambridge branch of the ASW urged the authorities of university laboratories to draw up schemes for possible wartime research for scientists working in those laboratories and submit them to the government. Needham was involved in drawing up the scheme for workers in the biochemistry laboratory. (continued in 1941 as its role had largely been subsumed within that of the Biology War Committee (B.24.../B.251))

Cambridge University

Requests to visit

1934-1936	8.231
1938-1940	8.232
1954-1955	8.233
1954-1973	8.234

General and miscellaneous

Papers re Report of the Synod on the Medical Course and Examination of the University, June 1932.	8.235
The Report proposed changes to the medical course offered at Cambridge, one of which involved transferring biochemistry from the Natural Sciences Tripos to a new Medical Sciences Tripos. Needham spoke for the biochemistry department in objecting to this proposal on the grounds that it would split the department and harm biochemistry's status as a pure science.	8.236
Correspondence and papers, 1954, re career destinations of graduates of the Cambridge biochemistry department and employment options for biochemists.	8.237-8.251

In 1938 the Association of Scientific Workers (ASW) stressed the need for an organisation to utilise effectively science in the country's defence in wartime. On the outbreak of war it again urged the need for the efficient use of scientists. The Cambridge branch of the ASW urged the authorities of university laboratories to draw up schemes for possible wartime research for scientists working in those laboratories and submit them to the government. Needham was involved in drawing up the scheme for workers in the biochemistry laboratory.

Cambridge University

- /... Found with this material and kept with it are correspondence and papers relating to the Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society and the Biology War Committee.
- B.237 Papers of the Association of Scientific Workers. Includes rough manuscript draft by Needham of resolutions of the Cambridge branch.
- B.238 'Biochemical Laboratory, Cambridge - Work which could be undertaken in time of war', 4pp typescript with manuscript annotation, November 1938.
- B.239 Notice of meeting in Strangeways Laboratory, 19 September 1939, 'To discuss the various [research] problems suggested to decide which shall be immediately attacked [...]', with annotated list of 'Investigations suggested'; correspondence from colleagues *re* war work; manuscript notes ?from meeting.
- B.240-B.243 'Memorandum on present work and suggested problems. Cambridge Biochemical Department.'
- Needham had asked all workers in the laboratory to suggest ways in which their current work could be utilised in the war effort or how otherwise their knowledge and skills might be used. He assembled their replies in the memorandum.
- B.240-B.242 Typescript and manuscript draft. 3 folders.
- B.242 This comprises the original or retyped replies of members of the department and other workers in the laboratory.
- B.243 Typescript draft, 8pp with extensive manuscript correction and annotation; 6pp duplicated typescript.
- B.244-B.247 Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society
- In October 1939 Needham met with R.A. Peters and J.H. Quastel to discuss coordination of wartime work in biochemistry on a national scale. It was felt this should be done through a specially constituted subcommittee. The subcommittee was suspended in 1941 as its role had largely been subsumed within that of the Biology War Committee (B.248-B.251).

Cambridge University

- Found with the material and kept with it are correspondence and papers relating to the Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society and the Biology War Committee.
- Papers of the Association of Scientific Workers. Includes rough manuscript draft by Needham of resolutions of the Cambridge branch.
- Biochemical Laboratory, Cambridge - Work which could be undertaken in time of war, 4pp typescript with manuscript annotation, November 1938.
- Notice of meeting in Stanway Laboratory, 19 September 1939. To discuss the various (present) problems suggested to discuss which shall be immediately attached [...], with suggested list of investigations suggested; correspondence from colleagues to war work manuscript notes from meeting.
- Memorandum on present work and suggested problems. Cambridge Biochemical Department.
- Needham had asked all workers in the laboratory to suggest ways in which their current work could be utilized in the war effort or how otherwise their knowledge and skills might be used. He assembled their replies in the memorandum. (The memorandum is dated 1939 but the work it refers to is of 1938-39.)
- Typescript and manuscript draft, 3 folders.
- This comprises the original or typed replies of members of the department and other workers in the laboratory.
- Typescript draft, 8pp with extensive manuscript correction and annotation; 8pp duplicated typescript.
- Biochemistry Subcommittee of the Advisory Research Council of the Chemical Society. (The subcommittee was set up in 1938 to coordinate of wartime work in biochemistry on a national scale. It was felt this should be done through a specially constituted subcommittee. The subcommittee was suspended in 1941 as its role had largely been subsumed within that of the Biology War Committee (B.248-B.251).)

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- B.244 Correspondence with colleagues *re* proposed subcommittee, October - November 1939; manuscript notes; miscellaneous material found therewith.
- B.245 Papers for first meeting of the subcommittee, 24 November 1939. Some papers are annotated by Needham.
- B.246 Correspondence arising from first meeting; agenda and papers for second meeting, 17 January 1940.
- B.247 Correspondence and papers, January 1940 - November 1941.
- Includes letter, 17 February 1940, *re* flavouring properties of monosodium glutamate, summarised report of research workers 31 May 1940 and minutes of final meeting, 29 October 1940.
- B.248-B.251 Biology War Committee
- This was formed in 1941 as the Biological War Committee by representatives from the Department of Scientific and Industrial Research, Medical Research Council and Agricultural Research Council being joined by representatives of learned societies and academics. The committee met to channel information and ideas for research between government and biological scientists and to prepare reports on 'any aspect of the War which is essentially biological or which has biological implications'.
- B.248 Papers of first meeting of committee, 30 October 1941. Includes introductory statement on origin of the committee.
- B.249 Papers of meetings, 4 December 1941 and 5 February 1942.
- B.250 Papers of meetings, 2 April and 18 June 1942. 2 folders.
- B.251 Papers of meeting, 17 September 1942.

Cambridge University

J. Needham
NCUA

- Correspondence with colleagues in various universities, October - November 1945. Manuscript notes, miscellaneous material found amongst papers.
- Papers for first meeting of the subcommittee, 24 November 1945. Some papers are associated by Needham.
- Correspondence arising from first meeting agenda and papers for second meeting, 17 January 1946.
- Correspondence and papers, January 1946 - November 1947. Includes letter, 17 February 1946, re favouring properties of monochloro glutamate, summarized report of research workers 21 May 1946 and minutes of final meeting, 29 October 1946.
- Biology War Committee. This was formed in 1941 as the Biological War Committee by representatives from the Department of Scientific and Industrial Research, Medical Research Council and Agricultural Research Council being joined by representatives of learned societies and academics. The committee met to channel information and ideas for research between government and biological scientists and to prepare reports on any aspect of the War which is essentially biological or which has biological implications.
- Papers of first meeting of committee, 30 October 1941. Includes introductory statement on origin of the committee.
- Papers of meetings, 4 December 1941 and 2 February 1942.
- Papers of meetings, 2 April and 18 June 1942.
- Papers of meeting, 12 September 1942.

Cambridge University

- B.252 Correspondence with A.C. Chibnall *re* future of department of biochemistry, 1943-1946.
- Chibnall succeeded F.G. Hopkins in the Sir William Dunn Chair of Biochemistry, Cambridge in 1943 (see C.21).
- Includes note on 'Post-war needs of the Department of Biochemistry' by Chibnall, 10 January 1944 and first draft of Needham's March 1944 letter to Chibnall *re* the post-war organisation of the biochemistry department, Needham's own position within it and his plans for future work (see also C.24).
- B.253 Animal experimentation licence 1942-1947.
- B.254 Exchange with F.G. Young *re* future direction of Needham's work and his existing and coming commitments, September 1949.
- Young succeeded A.C. Chibnall in the Sir William Dunn Chair of Biochemistry, Cambridge following Chibnall's resignation in September 1949.
- B.255 'Hopkins reprint collection'. Contents of Needham's folder so inscribed: correspondence and papers *re* housing F.G. Hopkins's offprint collection in the biochemistry department, 1950.
- B.256 Correspondence, October 1953 - June 1954 *re* visit to Marine Biological Association Plymouth Laboratory.
- Needham visited the Laboratory in June 1954 with two graduate students to initiate a scheme to give young biochemical researchers with a physico-chemical training experience of marine biological work.
- B.257, B.258 Papers *re* First Report to the General Board of the Committee appointed to review the Natural Sciences Tripos, 1961-1962. 2 folders.
- The report of the Committee recommended changes in courses, particularly those offered in Part I. The papers reflect the reactions of the Department of Biochemistry and Faculty Boards of Biology to the report.

Cambridge University

- Correspondence with A.C. Chibnall in relation to department of biochemistry.
1942-1944.
- Chibnall succeeded F.G. Hopkins in the Sir William Dunn Chair of
Biochemistry, Cambridge in 1945 (see C.21).
- Includes notes on Post-war needs of the Department of Biochemistry by
Chibnall, 1944 and first draft of Hopkins's letter 1944 later to
Chibnall in the post-war organization of the biochemistry department.
Hopkins's own position within it and his plans for future work (see also
C.24).
- Animal experimentation 1942-1947.
- Exchange with F.G. Young in future direction of Hopkins's work and his
existing and coming commitments, September 1942.
- Young succeeded A.C. Chibnall in the Sir William Dunn Chair of
Biochemistry, Cambridge following Chibnall's resignation in September
1949.
- Hopkins report collection: Contents of Hopkins's folder so included:
correspondence and papers in relation to F.G. Hopkins's official collection in
the biochemistry department, 1950.
- Correspondence, October 1953 - June 1954 in visit to Marine Biological
Association Plymouth Laboratory.
- Hopkins visited the Laboratory in June 1954 with two graduate students to
initiate a scheme to give young biochemical researchers with a physico-
chemical training experience of marine biological work.
- Papers in First Report to the General Board of the Committee appointed to
review the Natural Sciences Tripos, 1981-1982. 2 folders.
- The report of the Committee recommended changes in courses, particularly
those offered in Part I. The papers reflect the reactions of the Department
of Biochemistry and Faculty Boards of Biology to the report.

Cambridge University

- B.259 Duplicated typescript papers 'Notes on the means of entry to the University of Cambridge with the intention to study biochemistry' and 'Notes on the subjects which may be studied at school as preparation for entry to University course in biochemistry', 1963.
- B.260 6pp duplicated typescript draft account of the Department 1914-1963 by F.G. Young, sent to Needham for comment 17 September 1963. With Needham's manuscript corrections.

UNIVERSITY GENERAL AND MISCELLANEOUS

- B.261-B.263 Correspondence and papers *re* car parking, 1932-1934.
- Needham and other members of scientific laboratories requested that more car parking spaces should be provided in the area to the south of Downing Street. In 1934 after representations had been made, a Syndicate on Accommodation for Motor Vehicles was established and it presented its recommendations in May. Needham served on the syndicate.
- B.261 1932, 1933.
- B.262 1934. Papers for meetings of the Syndicate on Accommodation for Motor Vehicles; letter from D. Keilin arising from its recommendations, May.
- B.263 Manuscript notes etc.
- B.264 Note on 'Student's Inter-Faculty Co-ordinating Committee', 3pp typescript, ca.1938; papers *re* memorandum on teamwork by Ph.D. candidates, 1941.
- B.265, B.266 Papers *re* election of Chancellor of Cambridge University 1950. 2 folders.
- On the death of Field Marshal Smuts, two candidates were put forward for the Chancellorship: Lord Tedder and Pandit Nehru, Prime Minister of India. Needham supported Nehru. However, Nehru was not consulted before his nomination and subsequently indicated that he would decline to accept it. The prospect of a contest caused considerable media interest and much of the material is newspaper cuttings.

Cambridge University

Duplicated typescript papers: notes on the names of only to the University of Cambridge with the intention to study 'biography' and notes on the subjects which may be studied at school as preparation for entry to University course in 'biography', 1953.

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UNIVERSITY GENERAL AND MISCELLANEOUS

Correspondence and papers in car parking, 1932-1934.

Needham and other members of scientific laboratories requested that more car parking spaces should be provided in the area to the south of Downing Street. In 1934 after representations had been made, a Syndicate on Accommodation for Motor Vehicles was established and it presented its recommendations in May. Needham served on the syndicate.

1932, 1933.

1934. Papers for meetings of the Syndicate on Accommodation for Motor Vehicles; letter from G. Keilin arising from its recommendations, May.

Manuscript notes etc.

Note on 'Student's Inter-Faculty Co-ordinating Committee', 3pp typescript, ca 1936; papers in memorandum on teamwork by P.H.D. candidates, 1941.

Papers in election of Chancellor of Cambridge University 1950. 2 folios. On the death of Field Marshal Smuts, two candidates were put forward for the Chancellorship: Lord Tedder and Paddy Healy, Prime Minister of India. Needham supported Healy. However, Healy was not consulted before his nomination and subsequently indicated that he would decline to accept it. The prospect of a contest caused considerable media interest and much of the material is newspaper cuttings.

Cambridge University

B.267-B.271

Papers *re* Report of General Board on the Development of the University 1956-1962.

The Report initiated debate about the proportion of science and technology courses and students to those of the humanities courses and students within the university. Needham argued for the introduction of a humanities component into science courses and proposed a 'Principles of Science' Tripos.

B.267

Senate House discussions on the Report 31 January and 1 May 1956.

Needham's notes on proceedings and 5pp typescript 'remarks' delivered at the second discussion.

B.268

Needham's manuscript notes on Senate House discussion 5 November 1957; manuscript and typescript drafts of 'The proposed "Principles of Science Tripos" ' by Needham, published in *Cambridge Review*, 16 November 1957, with copy of article.

B.269

Letter to Needham *re* General Board committee to consider combined arts and science courses, 23 January 1959; 'Report of the General Board on course combining arts and science', 8 June 1960.

The report recommended the establishment of Principles of Science Tripos.

B.270

Papers of Department of Biochemistry staff meeting 7 March 1962 to discuss courses in principles of science.

B.271

Printed background material.

B.272

Papers for Department of Biochemistry staff meeting to discuss changes to Natural Sciences Tripos, 15 February 1956, annotated by Needham; papers *re* possible extension to the Department funded by the Wellcome Trust, May 1956.

B.273, B.274

Papers *re* abolition of Latin as an entry requirement for Cambridge University, 1959-1960.

Needham was opposed to ending knowledge of a classical language as a compulsory entry requirement.

Cambridge University

J. Needham
HOUSE 24/9/52

- Report to Report of General Board on the Development of the University
1958-1960.
- The Report is divided into three parts: the first part is a general survey of the University and its work; the second part is a survey of the work of the various faculties and departments; the third part is a survey of the work of the various departments and departments.
- Senate House discussion on the Report 21 January and 1 May 1960.
- Needham's notes on proceedings and his typewritten 'minutes' delivered at the second discussion.
- Needham's manuscript notes on Senate House discussion 5 November 1957; manuscript and typewritten drafts of 'The proposed Principles of Science Typog.' by Needham, published in Cambridge Review, 16 November 1957, with copy of article.
- Letter to Needham re General Board committee to consider combined arts and science courses, 23 January 1958; Report to the General Board on course combining arts and science, 8 June 1958.
- The report recommended the establishment of Principles of Science Typog.
- Papers of Department of Biochemistry staff meeting 7 March 1962 to discuss courses in principles of science.
- Printed background material.
- Papers for Department of Biochemistry staff meeting to discuss changes to Natural Sciences Typog, 18 February 1960, annotated by Needham; papers on possible extension to the Department handed by the Wellcome Trust, May 1960.
- Papers in relation to the proposed extension of the Department of Biochemistry to the University, 1959-1960.
- Papers in relation to the proposed extension of the Department of Biochemistry to the University, 1959-1960.
- Needham was opposed to ending knowledge of a classical language as a compulsory entry requirement.

Cambridge University

- B.273 Drafts of memoranda by Needham to the Vice-Chancellor setting out his views; manuscript notes.
- B.274 B.284 Printed material etc.
- B.275 Manuscript notes on 'Senate House Sociology Discussion 26/1/60'.
Correspondence and papers re reaction to reports to the Council of Senate on the administrative organisation of the University, 1957-1958.
- B.276 Papers, March - May 1961, re discussion meetings on possible widening of the history course to include more non-European history.
- B.277 Needham's annotated copies of Report to the Council of Senate on the Correspondence with H. Lazard re Lazard Foundation, 1962-1963.
Comments of the Faculty Board of Oriental Studies on the Report, 13 November 1967.
- B.278 Miscellaneous papers 1962-1964.
- B.279-B.284 'University teaching, readerships etc'. Contents of Needham's folders so inscribed: correspondence and papers re reaction to Report to the General Board of the Committee on Teaching, 1964.
The Report, issued on 1 May, recommended the establishment of minimum teaching requirements for Professors and Readers. Needham opposed this and drafted a memorandum for presentation at the discussion of the Report at Senate House on 9 June.
Correspondence from colleagues who had received copies of Needham's memorandum; marked copy of published discussion, fly-leafs for place.
- B.279 Report to the General Board of the Committee on Teaching 1 May 1964, with Needham's manuscript notes intercalated.
- B.280 First report of the Council of Senate on the administrative organisation of the University.
Drafts of Needham's memorandum setting out his views on the Report, with manuscript notes on the comments of colleagues to whom Needham had sent drafts.
Annotated copy; typescript of Needham's remarks during the discussion; correspondence re fly-leafs.
- B.281 Manuscript notes on discussion of Report by Association of University Teachers, 2 June, and manuscript notes and printed reports of discussion at Senate House, 9 June.
Manuscript notes on 'VCR discussion', 7 May 1963, re proposal to close the University Combination Room in the Old Schools building.

Cambridge University

J. Needham
NCUACS 24/2185

- 8.2.75 Draft of memorandum by Needham to the Vice-Chancellor setting out his views; manuscript notes.
- 8.2.76 Printed material etc.
- 8.2.75 Manuscript notes on Senate House Society Discussion 28/1/57.
- 8.2.75 Report, March - May 1957, is discussion meeting on possible widening of the history course to include more non-European history.
- 8.2.77 Correspondence with Laund Foundation, 1952-1953.
- 8.2.78 Miscellaneous papers 1952-1964.
- 8.2.78-8.2.84 University teaching, recordings etc. Contents of Needham's folders so far as they relate to the General Board of the Committee on Teaching, 1954.
- 8.2.78 The Report, issued on 1 May, recommended the establishment of minimum teaching requirements for Professors and Readers. Needham opposed the Report and drafted a memorandum for presentation at the discussion of the Report at Senate House on 8 June.
- 8.2.78 Report to the General Board of the Committee on Teaching 1 May 1954, with Needham's manuscript notes intercalated.
- 8.2.80 Draft of Needham's memorandum setting out his views on the Report, with manuscript notes on the comments of colleagues to whom Needham had sent drafts.
- 8.2.81 Manuscript notes on discussion of Report by Association of University Teachers, 2 June, and manuscript notes and printed reports of discussion at Senate House, 8 June.

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Cambridge University

- B.282 14pp duplicated typescript 'Summary of views of Colleges on main recommendations affecting them in the report [...]'.
From the mid-1960s a committee of the University would have to expand in order to accommodate the growth of the university's academic departments. The 1966 report of the Committee of the University of Cambridge on the relocation of scientific departments to new Cambridge. The University accepted the recommendations.
- B.283, B.284 Miscellaneous background material: manuscript notes, lists of Professors etc. 2 folders
- B.285-B.288 Correspondence and papers *re* reaction to reports to the Council of Senate on the administrative organisation of the University, 1967-1968.
Needham had strong reservations about certain aspects of the reports, which he recorded in a memorandum.
The material relates to the discussions in 1967-1968 and to associated moves to new buildings.
- B.285 Needham's annotated copies of Report to the Council of Senate on the administrative organization of the University, 13 October 1967 and of comments of the Faculty Board of Oriental Studies on the Report, 13 November 1967.
- B.286 Manuscript and typescript drafts of Needham's memorandum for the Senate House discussion of the Report, 28 November.
Needham was unable to present the memorandum in person and intended it to be given by a colleague. In the event the memorandum was not read and therefore could not be incorporated in the published discussions. However, it was widely circulated and received support.
Needham's memorandum opposing the development.
- B.287 Correspondence from colleagues who had received copies of Needham's memorandum; marked copy of published discussion; fly-sheets for *placet* and *non-placet*.
The meeting was principally concerned with the possible development of the rifle range site.
- B.288 First report of the Council of Senate on the administrative organisation of the University, 7 June 1968.
Further correspondence and papers *re* rifle range site, May 1970.
This revised the report of 13 October.
Annotated copy; typescript of Needham's remarks during the discussion; correspondence *re* fly-sheet. *re* Lion's Yard development, June-November 1970.
The University planned to sell Lion's Yard to the City Council for the
- B.289 Manuscript notes on 'UCR discussion', 7 May 1968, *re* proposal to close the University Combination Room in the Old Schools building.

Cambridge University

B.290-B.295

Development of west Cambridge. 1960-1971.

From the mid-1960s it became clear that the University would have to expand in order to accommodate the needs of the University's science departments. The 1965 Report to the General Board of the Committee of the Board on the long-term needs of scientific departments concluded redevelopment of city centre sites would be insufficient and recommended the relocation of scientific departments to west Cambridge. The University accepted the recommendation.

In November 1969, however, land nearer the centre of Cambridge became available when Jesus College decided to sell its rifle range and offered the University the opportunity to buy it. The site was mooted for the new Cavendish laboratory.

The material relates to the developments in west Cambridge and to associated moves to sell off certain central city sites for redevelopment.

B.290

Report to the General Board of the Committee of the Board on the long-term needs of scientific departments, 8 December 1965.

B.291

Opposition to building Turbomachinery Laboratory on Madingley Road, August 1969.

B.292

Discussion of west Cambridge development in Senate House, 25 November 1969. Includes typescript drafts of Needham's and B.M. Shaffer's memoranda opposing the development.

B.293

Papers for meeting of Cambridge Colleges' Committee, 23 May 1970.

The meeting was principally concerned with the possible development of the rifle range site.

B.294

Further correspondence and papers *re* rifle range site, May 1970.

B.295

Correspondence and papers *re* Lion's Yard development, June-November 1970.

The University planned to sell Lion's Yard to the City Council for the construction of a multi-storey carpark. Needham opposed this.

Cambridge University

- Development of west Cambridge. 8290-8295
- From the mid-1950s it became clear that the University would have to expand in order to accommodate the needs of the University's science departments. The 1955 Report to the General Board of the Committee of the Board on the long-term needs of scientific departments considered the redevelopment of city centre sites would be inefficient and recommended the relocation of scientific departments to west Cambridge. The University accepted the recommendation.
- In November 1955, however, land near the centre of Cambridge became available when Jesus College decided to sell its site and offered the University the opportunity to buy it. The site was needed for the new Cavendish laboratory.
- The material relates to the developments in west Cambridge and to associated moves to sell off certain central city sites for redevelopment.
- Report to the General Board of the Committee of the Board on the long-term needs of scientific departments, 8 December 1955. 8290
- Opposition to building Turbomachinery Laboratory on Madingley Road, August 1959. 8291
- Discussion of west Cambridge development in Senate House, 22 November 1959. Includes typescript drafts of Needham's and B.M. Shaffer's memoranda opposing the development. 8292
- Papers for meeting of Cambridge College Committee, 22 May 1970. 8293
- The meeting was principally concerned with the possible development of the site range site.
- Further correspondence and papers in the range site, May 1970. 8294
- Correspondence and papers in Lion's Yard development, June-November 1970. 8295
- The University planned to sell Lion's Yard to the City Council for the construction of a multi-storey carpark. Needham opposed this.

Cambridge University

- B.296 Correspondence *re* honorary degrees 1969-1971.
- B.297 Correspondence *re* borrowing periodicals from the university library, January 1972; letter *re* nursery and creche facilities in the university, 1976.

HISTORY OF SCIENCE COMMITTEE

In 1936, at Needham's suggestion, a committee was established, supported by the Faculty Boards of Biology, Physics and Chemistry, to arrange courses of lectures in the history of science. Needham was the first Chairman and Secretary of this History of Science Lectures Committee. The first history of science lectures were delivered in Michaelmas Term 1936. Lecturers included some of the leading scientists of the day - including Barcroft, W.H. Bragg, Eddington, Hopkins and Rutherford - and the collected lectures were published by Cambridge University Press. In early 1939 the Committee was suspended but it was re-formed in May 1942, with Needham again as Chairman (succeeded by H. Butterfield on Needham's departure for China). In 1944, following the presentation of R.S. Whipple's collection of historical scientific instruments and books to the University, it was proposed to create a university museum for the history of science to be followed in due course by a department of the history of science.

The establishment of a History of Science Committee was approved by the University in November 1945 and the reorganised committee began work in March 1947. The Committee continued to arrange lectures as before but also planned for the establishment of teaching posts in the history of science and the creation of the history of science museum. In October 1950 an Assistant Lecturer was appointed, attached to the Faculty of History. In 1951 the half-subject 'History and Philosophy of Science' was introduced into the Natural Sciences Tripos (Part I), a Committee of Management for the History and Philosophy of Science having been established to oversee this. In 1956 the History of Science Committee and the Committee of Management were merged to become the History and Philosophy of Science Committee. Needham served until 1971 (Chairman 1962-1964).

- B.298-B.306 Lectures
- B.307-B.354 Committee papers and correspondence
- B.355, B.356 Writings of Gerrard Winstanley and the Diggers
- B.357-B.368 Comenius Tercentenary

- B.199 Correspondence re honorary degree 1959-1971.
- B.197 Correspondence re borrowing postbooks from the University Library, January 1975; letter re library and archive facilities to the University, 1975.

HISTORY OF SCIENCE COMMITTEE

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- B.298-B.306 Lectures
- B.307-B.354 Committee papers and correspondence
- B.652, B.656 Writings of Gerald Whitnaley and the Digest
- B.357-B.368 Committee Treasury

Cambridge University

Lectures

B.298-B.306

1950 May. Meetings of Committee of Management for the History and Philosophy of Science.

Manuscript and typescript draft of 'Background to Modern Science. Ten lectures at Cambridge arranged by the History of Science Committee 1936'. 9 folders.

This was the first series of history of science lectures organised by the Committee. The collected lectures were edited by Needham and W. Pagel and published by Cambridge University Press in 1938.

Committee papers and correspondence

B.312

1950 July - December.

Principally committee papers of the History of Science Committee 1947-1955, the Committee of Management for the History and Philosophy of Science 1950-1955, and the History and Philosophy of Science Committee 1956-1971. The material was found in Needham's own folders, arranged chronologically. Also includes a little correspondence relating to the establishment of the History of Science Lectures Committee and the first series of lectures.

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1935-1936, 1938. Correspondence re establishment of History of Science Lectures Committee and programme of lectures for 1936-1937 and ?1939. Sent to Needham by W. Pagel, 20 September 1969 and 12 April 1970.

B.316

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1944-1947. Includes 'Second Memorandum on the revision of the Natural Sciences Tripos' by J.A. Ratcliffe, 3pp duplicated typescript, 4 November 1946; 'Mr Robinson's syllabus of economics for science students', 2pp duplicated typescript, 2 December 1946.

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1953. Includes correspondence re possible use of St Michael's Church, Cambridge for Whipple Museum.

1948. Includes correspondence in which Needham expresses disquiet at the direction being taken by History of Science Committee.

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1949-1950 March.

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1954 July - November. Includes material re establishment of Diploma course in History and Philosophy of Science.

B.321

1955 May. Includes material re establishment of Diploma course.

Cambridge University

Lectures

Manuscript and typescript draft of 'Background to Modern Science. Ten lectures at Cambridge arranged by the History of Science Committee 1956'. 2 folders.

This was the first course of history of science lectures organized by the Committee. The collected lectures were edited by Needham and W. Pagel and published by Cambridge University Press in 1958.

Committee papers and correspondence

Principally committee papers of the History of Science Committee 1947-1955, the Committee of Management for the History and Philosophy of Science 1950-1955, and the History and Philosophy of Science Committee 1955-1957. The material was found in Needham's own folders, arranged chronologically. Also includes a little correspondence relating to the establishment of the History of Science Lectures Committee and the first series of lectures. 1947-1955. Correspondence in establishment of History of Science Lectures Committee and programme of lectures for 1955-1957 and 1959. Sent to Needham by W. Pagel, 20 September 1955 and 12 April 1957.

1944-1947. Includes 'Second Memorandum on the revision of the Natural Sciences Tripos' by J.A. Ratcliffe, 3pp duplicated typescript, 4 November 1946; Mr Robinson's syllabus of economics for science students, 3pp duplicated typescript, 2 December 1946.

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1948-1950 March

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Cambridge University

- B.311 1950 May. Meetings of Committee of Management for the History and Philosophy of Science.
- At this stage the Committee was divided into two, to consider the introduction of the subject into Parts I and II of the Natural Sciences Tripos separately.
- B.312 1950 June. Preparation of report to the University by Committee of Management for the History and Philosophy of Science.
- B.313 1950 July - December.
- B.314 1951.
- B.315 1952 January - May. Includes draft scripts for first examinations in History and Philosophy of Science.
- B.316 1952 June. 'The teaching in Cambridge of the philosophy of science' by M.M. Braithwaite, 52pp typescript.
- B.317 1952 October - December.
- B.318 1953. Includes correspondence *re* possible use of St Michael's Church, Cambridge for Whipple Museum.
- B.319 1954 January - June.
- B.320 1954 July - November. Includes material *re* establishment of Diploma course in History and Philosophy of Science.
- B.321 1955 May. Includes material *re* establishment of Diploma course.

Cambridge University

- 1950 May. Meeting of Committee of Management for the History and Philosophy of Science. B.311
- At this stage the Committee was divided into two to consider the introduction of the subject into Parts I and II of the Natural Sciences Tripos separately. B.312
- 1950 June. Preparation of report to the University by Committee of Management for the History and Philosophy of Science. B.313
- 1950 July - December. B.314
1951. B.315
- 1952 January - May. Includes draft syllabus for first examinations in History and Philosophy of Science. B.316
- 1952 June. The teaching in Cambridge of the philosophy of science by M.M. Bhatnagar, 52pp typescript. B.317
- 1952 October - December. B.318
1953. Includes correspondence re possible use of St Michael's Church, Cambridge for Whipple Museum. B.319
- 1954 January - June. B.320
- 1954 July - November. Includes material re establishment of Diploma course in History and Philosophy of Science. B.321
- 1955 May. Includes material re establishment of Diploma course. B.322

Cambridge University

- B.322 1955 June, July. Includes material *re* establishment of Diploma course.
Chairman from October 1962, and it was agreed to begin moves towards a
Department of the History and Philosophy of Science.
- B.323 1955 November. Includes material *re* establishment of Diploma course.
1963.
- B.324 1956 January - June. Includes correspondence with A. Koslow *re* visit to
Cambridge.
1964 February, March.
- B.325 1956 October, December.
1964 May - October.
- B.326 1957 March - September.
1965 January - April. Includes 'Request for the formation of a Department of
History and Philosophy of Science', 2pp duplicated typescript.
- B.327 1957 November. Includes correspondence with D.J. Price *re* developments
in history of science.
1965 May - November. Includes correspondence with M.M. Davies *re*
development of history of science at Cambridge.
- B.328 1958.
1966 February, May.
- B.329 1959 January - March.
1966 October, November.
- B.330 1959 April - July.
1966 November.
- B.331 1959 October, November.
1967.
- B.332 1960.
1968.
- B.333 1961 February - June. Includes letter and manuscript note *re* talk by
Needham to the British Society for the History of Science on the history of
science at Cambridge, 13 May. *Science Museum*.
- B.334 1961 October.

Cambridge University

1955 June, July. Includes material in establishment of Diploma course.	B.337	B.335
1955 November. Includes material in establishment of Diploma course.	B.337	B.336
1956 January - June. Includes correspondence with A. Koshlov re visit to Cambridge.	B.334	B.337
1956 October, December.	B.337	B.338
1957 March - September.	B.336	B.339
1957 November. Includes correspondence with D.J. Price re developments in history of science.	B.337	B.340
1958.	B.338	B.341
1959 January - March.	B.339	B.342
1959 April - July.	B.340	B.343
1959 October, November.	B.341	B.344
1960.	B.342	B.345
1961 February - June. Includes letter and manuscript note re talk by Needham to the British Society for the History of Science on the history of science at Cambridge, 13 May.	B.343	B.346
1961 October.	B.344	B.347

Cambridge University

- B.335 1962. At the meeting of 29 May Needham was elected Committee Chairman from October 1962, and it was agreed to begin moves towards a Department of the History and Philosophy of Science.
- B.336 1963. Lectureship.
- B.337 1964 February, March. Includes material re possible establishment of Wellcome Unit for the History of Medicine at Cambridge.
- B.338 1964 May - October.
1970 May.
- B.339 1965 January - April. Includes 'Request for the formation of a Department of History and Philosophy of Science', 2pp duplicated typescript.
- B.340 1965 May - November. Includes correspondence with M.M. Davies re development of history of science at Cambridge.
- B.341 1971-1972.
1966 February, May.
- B.342 1973-1977. Colloquia and seminars.
1966 October, November.
- B.343 1966 November. Diggers.
In January 1941 L.D. Hamilton of the Oxford University History Society proposed a book of selected writings of the seventeenth century radical Gerrard Winstanley and others in the Digger movement. The proposal was put to Cambridge University Press through the History of Science Lectures Committee.
- B.344 1967.
- B.345 1968.
Correspondence 1941-1942, principally from Hamilton and C. Hill.
- B.346 1968-1969. Curatorship of Whipple Science Museum.
Typescript summary of the project and lists of Digger writings.

Cambridge University

1952. At the meeting of 20 May Newham was elected Committee Chairman from October 1952, and it was agreed to begin moving towards a Department of the History and Philosophy of Science.

1953. The Department was established in 1953.

1953.

1954. The Department was established in 1954.

1954 February, March.

1954 May - October.

1955 January - April. Includes Request for the formation of a Department of History and Philosophy of Science, 2pp duplicated typescript.

1955. The Department was established in 1955.

1955 May - November. Includes correspondence with M.M. Davies re development of history of science at Cambridge.

1955 February, May.

1955 January, March.

1955 October, November.

1955 November.

1955 October, November.

1957.

1957.

1958.

1958-1959. Includes Request for the formation of a Department of History and Philosophy of Science, 2pp duplicated typescript.

1959. The Department was established in 1959.

1959 October.

Cambridge University

- B.347 1969. Includes letter from Needham to Lord Annan *re* possible closure of History and Philosophy of Science Department at University College London.

Papers relating to the celebration of the 300th anniversary of the visit of the Czech theologian and writer Comenius (Jan Amos Komenský) to England in 1641. The official commemoration was held in the Senate House of Cambridge on 24 October 1941. A Comenius Tercentenary Committee was established, on which sat Needham (Convenor), Butlerfield and Sir William Dampier, all members of the History of Science Lectures Committee. The papers delivered during the commemoration were edited.

- B.348 1969. Lecturership.
- B.349 1970 February - April. Includes material *re* possible establishment of Wellcome Unit for the History of Medicine at Cambridge.

B.350 Correspondence *re* the organisation of the official commemoration and publication. The chief correspondent is R.F. Young, the leading British scholar on Comenius.

- B.351 1970 July - October. Includes exchange *re* Wellcome Unit. Young proposed to form a committee to organise a commemoration of Comenius. Young passed a copy of the letter on to Needham.

- B.352 1970. Curatorship and Assistant Lecturership. Comenius as seen by a British scientist by Needham to Czechoslovak-British Friendship Club, London, 27 May.

- B.353 1971-1972.

B.353 June - August 1941.

- B.354 1973-1977. Colloquia and seminars.

B.354 September, October 1941.

Writings of Gerrard Winstanley and the Diggers

B.354 November, December 1941. Includes 'The problem of Central European youth', the manuscript sent to Needham and the typescript on post-war youth. In January 1941 L.D. Hamilton of the Oxford University History Society proposed a book of selected writings of the seventeenth century radical Gerrard Winstanley and others in the Digger movement. The proposal was put to Cambridge University Press through the History of Science Lectures Committee.

- B.355 Correspondence 1941-1942, principally from Hamilton and C. Hill.

B.355, B.356 Cambridge Commemoration.

- B.356 Typescript summary of the project and lists of Digger writings. Typescript notes on proceedings, manuscript notes of reviews etc.

Cambridge University

1968. Includes letter from Needham to Lord Rutherford re possible closure of History and Philosophy of Science Department at University College London.	B.367
1968. Lectureship.	B.368
1970 February - April. Includes material re possible establishment of Wellcome Unit for the History of Medicine at Cambridge.	B.369
1970 May.	B.370
1970 July - October. Includes exchange re Wellcome Unit.	B.371
1970. Correspondence and Assistant Lectureship.	B.372
1971-1972.	B.373
1973-1977. Colloquia and seminars.	B.374
Writings of Gerard Winstanley and the Diggers	
In January 1941 L.D. Hamilton of the Oxford University History Society proposed a book of selected writings of the seventeenth century radical Gerard Winstanley and others in the Digger movement. The proposal was put to Cambridge University Press through the History of Science Lectures Committee.	
Correspondence 1941-1942, principally from Hamilton and C. Hill.	B.375
Typescript summary of the project and lists of Digger writings.	B.376

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Cambridge University

Comenius Tercentenary

Papers relating to the celebration of the 300th anniversary of the visit of the Czech theologian and writer Comenius (Jan Amos Komensky) to England in 1641. The official commemoration was held in the Senate House of Cambridge University, 24 October 1941. A Comenius Tercentenary Committee was established, on which sat Needham (Convenor), Butterfield and Sir William Dampier, all members of the History of Science Lectures Committee. The papers delivered during the commemoration were edited by Needham and subsequently published by Cambridge University Press as *The Teacher of Nations* (working title *Science and Free Peoples*).

B.357-B.361

Correspondence *re* the organisation of the official commemoration and subsequent publication. The chief correspondent is R.F. Young, the leading British scholar on Comenius.

B.357

February - May 1941. Includes letter from J. Masaryk asking Young to form a committee to organise a commemoration of Comenius. Young passed a copy of the letter on to Needham.

Folder also includes poster for talk on 'Comenius as seen by a British scientist' by Needham to Czechoslovak-British Friendship Club, London, 27 May.

B.358

June - August 1941.

B.359

September, October 1941.

B.360

November, December 1941. Includes 'The problem of Central European youth', 8pp typescript sent to Needham and 3pp typescript on post-war reconstruction referring to problems of youth by the painter O. Kokoschka.

B.361

1942.

B.362, B.363

Cambridge Commemoration.

B.362

Publicity booklet; poster; programme in Czech; Needham's manuscript notes on proceedings; manuscript notes of invitees etc.

Cambridge University

- B.363 3.370 Press-releases; press-cuttings. Also includes issue of *The Spirit of Czechoslovakia*, 30 September 1941, on Comenius.
Only those papers for meetings which bear Needham's manuscript annotations have been retained.
- B.364-B.367 Typescript drafts of chapters of book. 4 folders. Faculty Board meetings in Cambridge University Archives.
The chapters were sent to Needham for editing by their authors and bear his sometimes extensive manuscript corrections.
1963, 1964.
- B.368 Annotated and corrected first proofs.
1965. Includes papers re proposed East Asian Centre in Cambridge.

FACULTY BOARD OF ORIENTAL STUDIES

- Needham was made a member of the Faculty of Oriental Languages (later Oriental Studies) in October 1949.
- B.369-B.373 General correspondence, 1947-1969.
Needham was a Fellow of Gonville and Caius College from 1924. He served as Librarian of the College 1959-1960 and President 1959-1960.
- B.369 1947-1949. Includes correspondence with researchers wishing to work on the history of science and technology in the Far East.
- B.377 Miscellaneous correspondence, 1976-1980.
- B.370 1951, 1952. Includes letter from Needham re vacant Professorship in Chinese Language and History.
B.378-B.388 Governing Body, Ordinary College and General meetings.
- B.371 The material covers the period 1970-1980, and is chiefly papers for 1953, 1954. Supervision of student. There is also a little related correspondence. Subjects raised in this period include the admission of women undergraduates to the college, and the state of the college library.
- B.372 1955-1962.
1975.
- B.373 1967-1969. Prospective students.
1977 January.
- B.380 1977 April, October.

8.368	Press-release, press-outings. Also includes issue of The Spirit of Czechoslovakia, 1947, on Communism.
8.364-8.367	Typewritten drafts of chapters of book, 4 folders. The chapters were sent to Needham for editing by their authors and bear his sometimes extensive handwritten comments.
8.362	Arranged and corrected final proofs.
FACULTY BOARD OF ORIENTAL STUDIES	
8.358-8.373	General correspondence, 1947-1962. Needham was made a member of the Faculty of Oriental Languages (later Oriental Studies) in October 1949. 1947-1949. Includes correspondence with researchers wishing to work on the history of science and technology in the Far East.
8.370	1951, 1952. Includes letter from Needham re vacant Professorship in Chinese Language and History.
8.371	1953, 1954. Supervision of student. Includes the report on the researches of the student in the Department of Oriental Studies.
8.372	1955-1962.
8.373	1957-1962. Prospective students.

Cambridge University

- B.374-B.376 Papers for Faculty Board of Oriental Studies meetings, 1963-1968.
- Only those papers for meetings which bear Needham's manuscript annotations have been retained.
- 1978 April
- There is a complete set of papers of the Faculty Board meetings in Cambridge University Archives.
- 1978 October
- B.374 1963, 1964.
- 1979 January
- B.375 1965. Includes papers *re* proposed East Asian Centre in Cambridge.
- 1979 April, May, October
- B.376 1966-1968.

GONVILLE AND CAIUS COLLEGE

- 1980 February - April
- Needham was a Fellow of Gonville and Caius College from 1924. He served as Librarian of the College 1959-1960 and President 1959-1966. In 1966 he was appointed Master, a post he held to 1976.
- B.377 Miscellaneous correspondence, 1976-1980.
- B.378-B.388 Governing Body, Ordinary College and General meetings.
- The material covers the period 1976-1980, and is chiefly papers for meetings, some annotated by Needham. There is also a little related correspondence. Subjects raised in this period include the admission of women undergraduates to the college, and the state of the college library.
- B.378 1976.
- B.379 1977 January.
- B.380 1977 April, October.

Cambridge University

- 8374-B-375 Papers for Faculty Board of Oriental Studies meetings, 1952-1955.
Only those papers for meetings which bear Needham's manuscript annotations have been retained.
There is a complete set of papers at the Faculty Board meetings at Cambridge University Archives.
1952, 1954
- 8375 1955. Includes papers re proposed East Asian Centre in Cambridge.
- 8376 1955-1958.
- GONVILLE AND CAIUS COLLEGE**
- 8377 Miscellaneous correspondence, 1976-1980.
The material covers the period 1976-1980, and is chiefly papers for meetings, some annotated by Needham. There is also a little related correspondence. Subjects raised in this period include the admission of women undergraduates to the college, and the state of the college library.
- 8378 1976.
- 8379 1977 January.
- 8380 1977 April, October.

Cambridge University

SECTION C

SINO-BRITISH SCIENCE COOPERATION OFFICE
(SBSCO)

C.1-C.108

B.381 1978 January.

B.382 1978 April.

B.383 1978 October.

B.384 1979 January.

B.385 1979 April, May, October.

B.386 1980 January.

B.387 1980 February - April.

B.388 1980 April, October.

In a letter of 22 January 1948 (C.22) to A.C. Chibral Needham set out the logistical achievements of the SBSCO:

'...with 17 scientists (5 British, 12 Chinese), not all present at one time...we visited 300 laboratories, covering over 25,000 km journeys; we flew in by RAF over the hump \$550,000 worth of some tons of scientific equipment for Chinese scientists; we flew in some 7,000 scientific and technical books worth many millions of Chinese \$, and microfilm and actual copies of 200 leading British scientific journals. We sent 150 original MSS by Chinese authors to the west for publication, and 200 Chinese scientific journals. Exchanges of information were innumerable.'

In addition to his role as Director of the SBSCO, the Chinese Government appointed Needham adviser to the National Resources Commission, the Chinese Airforce Research Bureau and the Chinese Army Medical Administration. He was also warmly received by the Chinese scientific community and elected to a number of academies including the Academia Sinica and Peiping National Academy. Needham left China in February 1948. In October 1947 Chiang Kai-Shek awarded Needham the Order of the Brilliant Star with Orvet in recognition of his work in promoting

SECTION C

SINO-BRITISH SCIENCE COOPERATION OFFICE
(SBSCO)

C.1-C.166

Needham's interest in China dated from contact with Chinese colleagues at Cambridge from the mid 1930s. He taught himself Mandarin Chinese and began to study Chinese science and history. In 1939, responding to appeals for assistance, he and his wife offered to go to China to help in the reconstruction of Chinese science. Meanwhile Needham was active in seeking support for Chinese academics in the UK.

Early in 1942 Needham and E.R. Dodds, Regius Professor of Greek at Oxford, were invited to visit China under the auspices of the British Council. They arrived in the autumn of 1942, Needham travelling via the USA. In China Needham was made Head of the British Scientific Mission and later Scientific Counsellor to H.B.M. Embassy at Chungking (then the 'acting-capital' of China). Under the auspices of the British Council Needham established the Sino-British Science Cooperation Office (SBSCO) and became its first Director. The SBSCO was responsible for assessing the needs of Chinese scientific, technological and medical institutions and researchers, and facilitating the supply of equipment, medicines, books and journals to China. Needham made several journeys through China, visiting many institutions to assess for himself the needs of Chinese research and teaching centres. He also gave many lectures on a variety of subjects from biochemistry to world politics. He was later joined by his wife Dorothy who was appointed Associate Director of the SBSCO.

In a letter of 22 January 1946 (C.32) to A.C. Chibnall Needham set out the logistical achievements of the SBSCO:

'...with 17 scientists (5 British, 12 Chinese), not all present at one time...we visited 300 laboratories, covering over 25,000 km journeys; we flew in by RAF over the hump [£]60,000 worth some tons of scientific equipment for Chinese scientists; we flew in some 7,000 scientific and technical books worth many millions of Chinese \$, and microfilm and actual copies of 200 leading British scientific journals. We sent 150 original MSS by Chinese authors to the west for publication, and 200 Chinese scientific journals. Exchanges of information were innumerable'.

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Sino-British Science Cooperation Office

good relations between Britain and China. It was presented to Needham by the Chinese Ambassador to Britain in July 1949.

Needham wrote regular reports on the organisation and state of science in China for *Nature* and in 1948 edited the book *Science Outpost* which described the work of the Sino-British Science Cooperation Office. Needham's experiences in heading the SBSCO, an experience in scientific cooperation between nations, was crucial to his formulation of plans for wider international science cooperation within the new UNESCO.

The papers include correspondence, manuscript notes and typescript drafts and printed and duplicated papers. Some material is on rice paper and in consequence fragile.

The material is presented as follows:

C.1-C.15

ORIGINS OF THE CHINA MISSION

C.16-C.55

GENERAL CORRESPONDENCE

C.56-C.70

VISITS TO INSTITUTIONS

C.71-C.78

LECTURES

C.79-C.138

REPORTS, PUBLICATIONS AND BROADCASTS

C.139-C.146

ADMINISTRATIVE

C.147-C.166

MISCELLANEOUS MATERIAL

Sino-British Science Cooperation Office

good relations between Britain and China. It was presented to Needham by the Chinese Ambassador to Britain in July 1949.

Needham wrote regular reports on the organization and state of science in China for Nature and in 1955 edited the book *Science in China* which described the work of the Sino-British Science Cooperation Office. Needham's experience in leading the SSSCO, an experiment in scientific cooperation between nations, was crucial to the formation of plans for wider international scientific cooperation within the new UNESCO.

The papers include correspondence, manuscript notes and typescript drafts and printed and corrected papers. Some material is on not paper and is consequently fragile. The material is presented as follows:

ORIGINS OF THE CHINA MISSION

C.1-C.15

GENERAL CORRESPONDENCE

C.16-C.25

VISITS TO INSTITUTIONS

C.26-C.30

LECTURES

C.31-C.35

REPORTS, PUBLICATIONS AND BROADCASTS

C.36-C.138

ADMINISTRATIVE

C.139-C.145

MISCELLANEOUS MATERIAL

C.146-C.168

Sino-British Science Cooperation Office

ORIGINS OF THE CHINA MISSION

December. Includes correspondence re possible scientific visit to China, and issues of 'Cambridge China Bulletin', 12 and 13 November.

Correspondence and papers, 1939-1942 re British support for Chinese universities and academics, Chinese students in Britain and correspondence re Needham's departure for China.

C.7

C.1

1939 January - November. Chiefly re the Needhams' offer to go to China to assist in the reconstruction of Chinese science.

C.2

Lectures by Chung-Shu Lo, appealing to British universities for assistance for Chinese universities:

C.8

1941 June - October
'The past and the present of Chinese university education', 4pp duplicated typescript, London, 4 August 1939.

C.9

'Some ideas on cultural co-operation', 8pp typescript, Oxford, 15 November 1939.

'A suggestion of cultural co-operation between Cambridge University and Chinese universities', 4pp typescript, Cambridge, 8 December 1939.

'Chinese university education and British universities: a plea for co-operation', 4pp duplicated typescript, Oxford, nd.

C.10

1942 March - June. Includes correspondence with British Council re invitation to visit China as Visiting Professor at the Academia Sinica.

C.3

1939 December. The correspondence is chiefly with Lo re his lectures and the ideas put forward therein. Includes draft of 'A statement by some teachers in Oxford to those teachers and other men of learning in China...' supporting the call for cooperation.

C.11

C.4

1940 January. Arrangements for visit.

Following the Oxford statement an informal Anglo-Chinese Intellectual Co-operation Committee was established in Cambridge. Needham was secretary. In this capacity he drafted a statement on co-operation between British and Chinese universities for Cambridge academics to sign. The material is chiefly correspondence re the statement from those asked to sign.

C.13

C.14

1942 October, and nd. Arrangements for visit.

C.5

1940 February. Includes correspondence re Universities China Committee and Chinese students in Cambridge.

C.15

Sino-British Science Co-operation Office

ORIGINS OF THE CHINA MISSION

Correspondence and papers, 1935-1945 re British support for Chinese universities and students, Chinese students in Britain and correspondence in Needham's dossier for China.

1935 January - November. Chiefly in the Needham's offer to go to China to assist in the reconstruction of Chinese science.

Lectures by Chung-Shan Lu, appealing to British universities for assistance for Chinese universities.

The past and the present of Chinese university education, 4pp duplicated typescript, London, 4 August 1938.

'Some ideas on cultural co-operation', 8pp typescript, Oxford, 15 November 1938.

'A suggestion of cultural co-operation between Cambridge University and Chinese universities', 4pp typescript, Cambridge, 8 December 1938.

'Chinese university education and British universities: a plea for co-operation', 4pp duplicated typescript, Oxford, n.d.

1938 December. The correspondence is chiefly with Lu in his lectures and the ideas put forward therein. Includes draft of 'A statement by some teachers in Oxford to those teachers and other men of learning in China...' supporting the call for co-operation.

1940 January.

Following the Oxford statement an informal Anglo-Chinese Intellectual Co-operation Committee was established in Cambridge. Needham was secretary. In this capacity he drafted a statement on co-operation between British and Chinese universities for Cambridge academics to sign. The material is chiefly correspondence in the statement from those asked to sign.

1940 February. Includes correspondence re Universities China Committee and Chinese students in Cambridge.

Sino-British Science Cooperation Office

- C.6 1940 March - December. Includes correspondence *re* possible sabbatical visit to China, and issues of 'Cambridge China Bulletin', 12 and 19 November.
- C.7 1941 March - May. Includes request from Chinese Central News Agency for Needham to issue a statement calling for national unity, with draft of Needham's statement.
- C.16 This statement was requested of Needham, in view of the high esteem in which he was held in China, in order to ease tensions between the Communists and the Kuomintang government.
- C.8 1941 June - October.
- C.9 1942 January - February. Includes typescript notes of discussion meeting on the post-war settlement and problems in the Far East, New York, 19 January (Needham was not present); notice of election as Honorary Life member of the Cambridge Chinese Students Society; correspondence *re* China Campaign Committee day school on China, Colchester, Essex, 29 March (Needham was asked to speak on Anglo-Chinese relations).
- C.10 1942 March - June. Includes correspondence with British Council *re* invitation to visit China as Visiting Professor at the Academia Sinica.
- C.11 1942 July. Arrangements for visit to China.
- C.12 1942 August. Arrangements for visit.
- C.13 1942 September. Arrangements for visit.
- C.14 1942 October, and nd. Arrangements for visit.
- C.15 The Dunn Professorship of Biochemistry became vacant on the retirement of Sir William Dunn. The Chair went to A.C. Chibnall and the folder includes draft of Needham's telegram of congratulation. See also B.252.

Sino-British Science Co-operation Office

- 1940 March - December. Includes correspondence re possible expedition visit to China, and letters to Cambridge China Bureau, 12 and 19 November.
- 1941 March - May. Includes request from Chinese Central News Agency for Needham to issue a statement calling for national unity, with draft of Needham's statement.
- This statement was requested of Needham in view of the high esteem in which he was held in China, in order to ease tensions between the Communists and the Kuomintang Government.
- 1941 June - October.
- 1942 January - February. Includes typescript notes of discussion meeting on the post-war settlement and problems in the Far East, New York, 18 January (Needham was not present); notice of election as Honorary Life member of the Cambridge Chinese Students Society; correspondence re China Campaign Committee day school on China, Colchester, Essex, 29 March (Needham was asked to speak on Anglo-Chinese relations).
- 1942 March - June. Includes correspondence with British Council re invitation to visit China as Visiting Professor at the Academia Sinica.
- 1942 July. Arrangements for visit to China.
- 1942 August. Arrangements for visit.
- 1942 September. Arrangements for visit.
- 1942 October, and nd. Arrangements for visit.
- Press-cuttings re Needham's visit to China; miscellaneous manuscript notes.

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Sino-British Science Cooperation Office

GENERAL CORRESPONDENCE

Correspondence from period of Needham's stay in China, and later correspondence arising from contacts made while in China. The later letters most frequently concern attempts to find research and employment opportunities for Chinese students and academics. There is also 1987 correspondence *re* historical research relating to Needham's time in China.

C.16

1942 November, December. Chiefly *re* visits to colleagues in USA en route to China. See also H.50.

Includes papers *re* meeting on problems of the War organised by the journal *Science and Society*, 28 November 1942. Needham was a member of the panel discussing the utilisation of scientists in wartime.

C.17-C.20

'Excerpts JN's Letters from China'. Contents of Needham's folder so inscribed divided into four for ease of reference: typescript extracts from Needham's letters home February - November 1943.

The first extract is headed 'Impressions of the first thirty-six hours in China asked for by Margaret Mead' but the letters appear to have been originally written to his wife Dorothy. They contain personal news (food, descriptions of hosts etc), information on scientific institutions visited and geographical, anthropological etc impressions of China.

C.17

February, March.

C.18

April - June.

C.19

July - September.

C.20

October, November.

C.21

1943. Telegrams *re* Sir William Dunn Chair of Biochemistry, Cambridge.

The Dunn Professorship of Biochemistry became vacant on the retirement of F.G. Hopkins. Needham was invited to apply in February 1943 but felt his work in China took priority. The Chair went to A.C. Chibnall and the folder includes draft of Needham's telegram of congratulation. See also B.252.

Sino-British Science Cooperation Office

GENERAL CORRESPONDENCE

Correspondence from period of Needham's stay in China, and later correspondence with him, contains much of interest. The latter letters most frequently concern attempts to find research and employment opportunities for Chinese students and scientists. There is also 1957 correspondence on historical research relating to Needham's time in China.

1942 November, December. Chiefly re visits to colleagues in USA en route to China. See also B.52.

Includes papers on meeting on problems of the War organised by the journal Science and Society, 25 November 1942. Needham was a member of the panel discussing the utilization of scientists in wartime.

Excerpts 5/6's Letters from China. Contents of Needham's folder, so described, dated and sent for cases of interest. Typescript extracts from Needham's letters from February - November 1943.

The first extract is headed 'Impressions of the first thirty-six hours in China' and is by Margaret Mead, but the letters appear to have been originally written to his wife Dorothy. They contain personal news (food, descriptions of hosts etc), information on scientific institutions visited and geographical, anthropological etc impressions of China.

February, March.

April - June.

July - September.

October, November.

1943. Telegrams to Sir William Dunn Chair of Biochemistry, Cambridge.

The Dunn Professorship of Biochemistry became vacant on the retirement of F.G. Hopkins. Needham was invited to apply in February 1943 but left his work in China too shortly. The Chair went to A.C. Chibnall and the folder includes draft of Needham's telegram of congratulation. See also B.52.

Sino-British Science Cooperation Office

- C.22 1943 April - July. Includes correspondence *re* invitation to Needham to visit South America on a goodwill mission. In his reply declining the invitation, 25 June, Needham sets out his plans for the work in China.
- C.23 1943 September - December.
1944 April. Includes copy of letters from Chinese scientists thanking Needham for his services to Chinese science and material *re* proposed Chinese Institute in London.
- C.24 1944 January - March. Includes drafts of letter to Chibnall *re* the post-war organisation of the biochemistry department, his own position within it and his plans for work on the history of Chinese science and technology. See also B.252. Includes correspondence *re* filling vacancies in SBSCO created by the departures of Needham, his wife and G. Sanders.
- C.25 1944 April, May.
1944 June, July. Includes requests to Needham to lecture on his experiences in China.
- C.26 1944 June - August.
1944 August. Chiefly *re* research and employment opportunities in the West.
- C.27 1944 September - December. Includes press cutting recording the establishment of an office under 'Sir Joseph Needham...to promote scientific and technical contacts' between the UK and China, October, and press release and press cutting *re* Needham's brief return to the UK, December.
- C.28 1945 January - March. Includes correspondence *re* posts in China.
- C.29 1945 April, May. Chiefly correspondence from Lu Gwei-Djen reporting on visit to USA.
- C.30 1947 January, February. Includes correspondence with R. Harter *re* 1945 June - August. Includes Needham's 6pp typescript letter to the British Council, 2 July, setting out his views on the Council's work in Iran and Iraq. Council in China.
- C.31 1945 September - December. Includes correspondence *re* conservation of Tun Hwang caves.

Sino-British Science Cooperation Office

- 1943 April - July. Includes correspondence in relation to Needham to visit South America on a goodwill mission. In the reply detailing the invitation, 25 June, Needham sets out his plans for the work in China. C.32
- 1943 September - December. C.33
- 1944 January - March. Includes drafts of letter to Cleeve in the post-war organisation of the biochemistry department, his own position within it and his plans for work on the history of Chinese science and technology. See also B.425. C.34
- 1944 April, May. C.35
- 1944 June - August. C.36
- 1944 September - December. Includes press cutting recording the establishment of an office under Sir Joseph Needham to promote scientific and technical contacts between the UK and China, October, and press release and press cutting in Needham's brief return to the UK, December. C.37
- 1945 January - March. C.38
- 1945 April, May. Chiefly correspondence from Lu Gwei-Dian reporting on visit to USA. C.39
- 1945 June - August. Includes Needham's 6pp typescript letter to the British Council, 2 July, setting out his views on the Council's work in Iran and Iraq. C.40
- 1945 September - December. Includes correspondence in connection of Tun Hwang caviar. C.41

Sino-British Science Cooperation Office

- C.32 1946 January - March. Includes draft letter announcing the end of Needham's work in China, and letter to Chibnall, 22 January, setting out the achievements of the SBSCO and some of his plans and expected future activities.
- C.33 1946 April. Includes copy of letters from Chinese scientists thanking Needham for his services to Chinese science and material *re* proposed Chinese Institute in London.
- C.43 1946 January - March. Chiefly *re* scholarship applications of T.C. Tsao. Also includes newspaper cutting *re* work of R.A. Silow, and correspondence *re* Order of the Brilliant Star.
- C.34 1946 May. Includes correspondence *re* filling vacancies in SBSCO created by the departures of Needham, his wife and G. Sanders.
- C.44 1946 April - August.
- C.35 1946 June, July. Includes requests to Needham to lecture on his experiences in China.
- C.45 1946 September - December. Includes invitation to meeting of Chinese science societies, Nanjing, 9-11 October (Needham did not attend but sent a message of goodwill to the meeting) and correspondence *re* Message for the West.
- C.36 1946 August. Chiefly *re* research and employment opportunities in the West.
- C.37 1946 September. Chiefly *re* research and employment opportunities.
- C.38 1946 October. Includes correspondence *re* posts in China.
- C.47 1946 April - June. Includes typescript account of his visit to the Communist forces and first impressions of Communist rule, sent to Needham in June, and correspondence *re* Order of Brilliant Star (see C.42).
- C.39 1946 November, December.
- C.40 1947 January, February. Includes correspondence with R. Hartog *re* expedition to Amne Machin mountain range on China-Tibet border, and correspondence with R.A. Silow, Director of the Science Office of the British Council in China.
- C.49 1946 October - December. Includes correspondence *re* lectures at Birmingham University on science in China.
- C.41 1947 March - September.
- C.50 1950 January - July. Includes material *re* Needham's remarks at China Welfare Appeal 'Friendship Dinner', New York, 6 May.

Sino-British Science Cooperation Office

1946 January - March	C.42	Includes staff letter announcing the end of Needham's work in China, and letter to Chinese, dated 22 January, setting out the achievements of the SBSCO and some of his plans and expected future activities.
1946 April	C.43	Includes copy of letter from Chinese scientists thanking Needham for his services to Chinese science and material in proposed Chinese Institute in London.
1946 May	C.44	Includes correspondence in filing vouchers in SBSCO created by the departure of Needham, his wife and G. Gardner.
1946 June, July	C.45	Includes requests to Needham to lecture on his experiences in China.
1946 August	C.46	Chiefly in research and employment opportunities in the West.
1946 September	C.47	Chiefly in research and employment opportunities.
1946 October	C.48	Includes correspondence in posts in China.
1946 November, December	C.49	Includes correspondence in posts in China.
1947 January, February	C.50	Includes correspondence with R. Hahoy in expedition to Anne Machin mountain range on China-Tibet border, and correspondence with R.A. Shaw, Director of the Science Office of the British Council in China.
1947 March - September	C.51	Includes correspondence in posts in China.

C.42

C.43

C.44

C.45

C.46

C.47

C.48

C.49

C.50

Sino-British Science Cooperation Office

- C.42 1947 October - December. Includes correspondence *re* award to Needham of the Order of the Brilliant Star with Cravat of the Republic of China.
Needham wished to receive the award, presented by the Nationalist government, before the Communists took power in China. He received royal permission to receive the Order on 2 June 1949 and was presented with it on 14 July. See also A.94, C.43, C.47.
- C.43 1948 January - March. Chiefly *re* scholarship applications of T.C. Tsao. Also includes newspaper cutting *re* work of R.A. Silow, and correspondence *re* Order of the Brilliant Star.
- C.44 1948 April - August.
- C.45 1948 September - December. Includes invitation to meeting of Chinese science societies, Nanking, 9-11 October (Needham did not attend but sent a message of goodwill to the meeting) and correspondence *re* Message for the Anniversary of Nanking University by Needham, broadcast on BBC Chinese Service, 11 November.
- C.46 1949 February, March. Includes draft programme and manifesto of Campaign for a World Truce.
- C.47 1949 April - June. Includes typescript account of fall of Nanking to the Communist forces and first impressions of Communist rule, sent to Needham in June, and correspondence *re* Order of Brilliant Star (see C.42 above).
- C.48 1949 July - September.
- C.49 1949 October - December. Includes correspondence *re* lectures at Birmingham University on science in China.
- C.50 1950 January - July. Includes material *re* Needham's remarks at China Welfare Appeal 'Friendship Dinner', New York, 5 May.

Sino-British Science Cooperation Office

- C.52 1947 October - December. Includes correspondence in regard to Needham of the Order of the British Star with Government of the Republic of China.
- C.53 1948 January - March. Chiefly re scientific applications of T.C. Tsao. Also includes newspaper cutting re work of R.A. Shaw, and correspondence in Order of the British Star.
- C.54 1948 April - August.
- C.55 1948 September - December. Includes invitation to meeting of Chinese science societies, meeting 9-11 October (Needham did not attend but sent a message to guests to the meeting) and correspondence in message for the Anniversary of Nanking University by Needham, broadcast on BBC Chinese Service, 11 November.
- C.56 1949 February, March. Includes draft programme and manifesto of Campaign for a World Trust.
- C.57 1949 April - June. Includes typescript account of fall of Nanking to the Communist forces and first impressions of Communist rule, sent to Needham in June, and correspondence in Order of the British Star (see C.52 above).
- C.58 1949 July - September. Includes correspondence re T.C. Tsao, re Shaw, re Shaw's work on the Chinese Communist Party, and re Shaw's work on the Chinese Communist Party.
- C.59 1949 October - December. Includes correspondence re lectures at Birmingham University on science in China.
- C.60 1950 January - July. Includes material re Needham's remarks at China Welfare Appeal Friendship Dinner, New York, 5 May.

Sino-British Science Cooperation Office

- C.51 1950 September - December. Includes report on 'Scientific research and university education' by C.C. Chu, Vice-President of Chinese Academy of Sciences, 29 October.

- C.52 1951.

- C.53 1952-1953.

- C.54 1987. Includes correspondence *re* research on Sir Horace Seymour, UK ambassador to China 1942-1946.

- C.55 Nd.

VISITS TO INSTITUTIONS

158. Also Dorothy Needham's notes on visits 153-159.

Needham's original manuscript notes on visit 158 to 'EASTA' (Emergency Medical Service Training School) Kanchow are to be found in

In China Needham made a great number of visits to scientific, medical, industrial and educational institutions throughout China. He kept manuscript notes of his visits, in Chinese and in English, recording the history of the institution, the research being done, colleagues he met and the needs of the institution for scientific support from UK. He also reported on his visits to the British Council and published accounts of his travels in a series of articles in *Nature* (see C.79-C.94).

The great majority of Needham's notes are numbered. The sequence runs from 1 to 297 and the index to most of the sequence (nos. 1-220) is in Needham's notebook at C.56.

- C.56 Hardback pocket notebook labelled 'Visits' on spine. Most pages not used. Loose at back is sketch map of West China Union University campus.

- C.57-C.69 Manuscript notes on visits, 1-297.

Notes kept in a series of envelopes inscribed 'Visits to institutions'.

The sequence is not complete: not all numbers were used for the sequence (such as 28-36) and some notes were missing from the envelopes, including those listed in C.56 as being 'secret'.

Sino-British Science Co-operation Office

1950 September - December. Includes report on Scientific research and university education by C.C. Chen, Vice-President of Chinese Academy of Sciences, 28 October.

1951-1952. Includes report on Scientific research and university education by C.C. Chen, Vice-President of Chinese Academy of Sciences, 28 October.

1953-1954. Includes report on Scientific research and university education by C.C. Chen, Vice-President of Chinese Academy of Sciences, 28 October.

1955-1956. Includes report on Scientific research and university education by C.C. Chen, Vice-President of Chinese Academy of Sciences, 28 October.

1957. Includes correspondence re research on St. Helena Bay, UK.

1958-1959. Includes report on Scientific research and university education by C.C. Chen, Vice-President of Chinese Academy of Sciences, 28 October.

VISITS TO INSTITUTIONS

In China Needham made a great number of visits to scientific, medical, industrial and educational institutions throughout China. He kept manuscript notes of his visits, in Chinese and in English, recording the history of the institution, the research being done, colleagues he met and the needs of the institution for scientific support from UK. He also reported on his visits to the British Council and published accounts of his travels in a series of articles in Nature (see C.79-C.84).

The great majority of Needham's notes are numbered. The sequence runs from 1 to 287 and the index to most of the sequence (nos. 1-220) is in Needham's notebook at C.55.

Handbook pocket notebook labelled 'Visits' on spine. Most pages not used. Loose at back is sketch map of West China Union University campus.

Manuscript notes on visits, 1-287.

Notes kept in a series of envelopes marked 'Visits to institutions'. The sequence is not complete: not all numbers were used for the sequence (such as 25-28) and some notes were missing from the envelopes, including those listed in C.58 as being 'secret'.

C.57

C.58

C.59

C.60

C.61

C.62

C.63

C.64

C.65

C.66

C.67

C.68

Sino-British Science Cooperation Office

- C.57 1-20.
- C.58 21-50. Shared manuscript notes on visits to Chinese institutions.
- C.59 51-80.
- LECTURES
- C.60 81-102. He delivered many lectures in connection with his service in China, frequently in association with his visits to various institutions.
- C.61 110-130. The material is manuscript and typescript notes and drafts for lectures, with title or subject area given but less often with date, location or audience. The notes are usually in English with occasional Chinese additions but a few are written out in Chinese transcribed into Latin characters.
- C.62 131-151.
- C.63 153-168. Also Dorothy Needham's notes on visits 153-159.
The list includes general lectures on the organisation of science and the
Needham's original manuscript notes on visit 153, to 'E.M.S.T.S. [Emergency Medical Service Training School]', Kweiyang, are to be found in the collection of papers of Needham held by the Imperial War Museum, London, NCUACS 55/4/95, folder no. 71.
- C.64 169-185. Lanchow 15th Nov. 1942. Intended for New York branch Tzu-jen Ko-shieh Hui (Sinhui branch)
- C.65 187-210. Talk to Xin (Christian) students on science and religion, Kunming 13 March 1943; Lanchow 5 September 1943 and Shaoen 28 May 1944.
- C.66 211-221, 257-260. 'Biochemistry at [T'ungku] Sci Club', March 1943.
- C.67 262-273. Typescript report on lecture on Science and Society, West China Union, Hsiao Ta, 4 May 1943.
- C.68 274-284. 'International science co-operation in war and peace', Annual Conference of Scientific Societies, Beijing, Panchuan, July 1943. 13pp typescript.

Sino-British Science Cooperation Office

1-50	0.57	Needham's original manuscript notes on visit 183 to E.M.S.T.S. Emergency Medical Service Training School, Kweiyang, are to be found in the collection of papers of Needham held by the Imperial War Museum, London (NGUACS 52465, folder no. 71).
51-52	0.58	
53-54	0.59	
55-56	0.60	
57-102	0.61	
110-130	0.62	
131-181	0.63	
182-183	0.64	Also Dorothy Needham's notes on visits 182-183.
184-185	0.65	
186-187	0.66	
188-189	0.67	
190-191	0.68	
192-193	0.69	
194-195	0.70	
196-197	0.71	
198-199	0.72	
200-201	0.73	
202-203	0.74	
204-205	0.75	
206-207	0.76	
208-209	0.77	
210-211	0.78	
212-213	0.79	
214-215	0.80	
216-217	0.81	
218-219	0.82	
220-221	0.83	
222-223	0.84	
224-225	0.85	
226-227	0.86	
228-229	0.87	
230-231	0.88	
232-233	0.89	
234-235	0.90	
236-237	0.91	
238-239	0.92	
240-241	0.93	
242-243	0.94	
244-245	0.95	
246-247	0.96	
248-249	0.97	
250-251	0.98	
252-253	0.99	
254-255	1.00	

Sino-British Science Cooperation Office

C.69 285-297. Government officials @ Lanchow - Kansu Prov. Gov., 17 November 1943.

C.70 Unnumbered manuscript notes on visits to Chinese institutions. 18 November 1943.

LECTURES

'Science and agriculture in China and the West', Agricultural Association of China, Chungking, 22 February 1944.

8pp typescript and manuscript draft, printed copy (in Chinese).

Needham delivered many lectures in connection with his service in China, frequently in association with his visits to various institutions.

'Science and democracy', Hsinchuang, May 1944 and Kuayang Science

The material is manuscript and typescript notes and drafts for lectures, usually with title or subject area given but less often with date, location or audience. The notes are usually in English with occasional Chinese additions but a few are written out in Chinese transcribed into Latin characters.

C.74 'Industry', Yunnan Industrial Federation Club, 7 October 1944.

C.71 List of 'Some of the titles of lectures and addresses which Dr Joseph Needham, FRS, is prepared to give'. University, Nanking, October 1944.

The list includes general lectures on the organisation of science and the sociology and philosophy of science, and more specialised lectures on biochemical and biological subjects and on the history of science.

See also G.57-G.62. Overseas China Committee, UK, 10 December 1944.

C.72 'GD Washington 15th Nov. 1942 intended for New York branch Tzu-rjan Ko-shioh Hui fênghui (branch)'

Talk to Szechuan Federation CIC on industrialisation of China, 8 October 1945.

'Sunday talk to Xtn [Christian] students' on science and religion, Kunming 13 March 1943; Lanchow 6 September 1943 and Shaown 28 May 1944.

C.75 Notes for lectures on work of SBSCO and position of science in China.

'Hoppy & Cambridge Biochemistry at [?T'anqo] Sci Club', March 1943.

C.76 Typescript report on lecture on Science and Society, West China Union University, Hwa Ta, 4 May 1943.

C.77 'International science co-operation in war and peace', Annual Conference of Chinese Scientific Societies, Beipei, Szechuan, July 1943. 13pp typescript.

C.78 Miscellaneous lecture notes.

Sino-British Science Cooperation Office

288-297

Unnumbered manuscript notes on visits to Chinese institutions.

LECTURES

Needham delivered many lectures in connection with his service in China, frequently in association with his visits to various institutions.

The material is manuscript and typescript notes and drafts for lectures, usually with the subject given but less often with date, location or audience. The notes are usually in English with occasional Chinese additions but a few are written out in Chinese transcribed into Latin characters.

List of 'Some of the titles of lectures and addresses which Dr Joseph Needham, FRS, is prepared to give'.

The list includes general lectures on the organization of science and the sociology and philosophy of science, and more specialized lectures on biochemical and biological subjects and on the history of science.

See also G.57-G.62.

GD Washington 18th Nov. 1942. Intended for New York branch Tsu-jan Ko-shih Hui (English branch).

'Sunday talk to Xin (Christian) students' on science and religion, Kunming 12 March 1943; Lanchow 6 September 1943 and Shown 28 May 1944.

Hoppy & Cambridge Biochemistry at [?T?nd?] Sci Club, March 1943.

Typescript report on lecture on Science and Society, West China Union University, Hwa Ta, 4 May 1943.

'International science co-operation in war and peace', Annual Conference of Chinese Scientific Societies, Beiping, Szachuan, July 1943. 13pp typescript.

Sino-British Science Cooperation Office

- C.73 'Talk to Government officials @ Lanchow - Kansu Prov. Gov.', 17 November 1943.
- Lecture to 'Lanchow Rotary Club' on the work of the SBSCO, 18 November 1943.
- 'Science and agriculture in China and the West', Agricultural Association of China, Chungking, 22 February 1944.
- 9pp typescript and manuscript draft; printed copy (in Chinese).
- 'Science and democracy', Hsienjêngmiao, May 1944 and Kioayang Science Institute, August 1944.
- 'Science and technology in the North-West of China', 17pp typescript.
- C.74 'Science and Industry', Yunnan Industrial Federation Club, 7 October 1944.
- 'Abstract of a lecture on Science and civilisation in China given before the Science Society of China, Chekiang University, Meitan, October 1944'.
- Report to Executive Committee of British Council, UK, 12 December 1944.
- Work of SBSCO, Universities China Committee, UK, 13 December 1944.
- Science and Britain's war effort, May 1945.
- 'Talk to Baochi Federation CIC' on industrialisation of China, 6 October 1945.
- Notes for lectures on work of SBSCO and position of science in China.
- C.76 Notes for lectures on biochemical and biological subjects.
- C.77 Notes for lectures on international science and politics.
- C.78 Miscellaneous lecture notes.

Sino-British Science Cooperation Office

C.75	Talk to Government officials @ Lunghua - Kaiman Prov. Gov., 17 November 1943.
	Lecture to Lunghua Railway Club on the work of the SSSCO, 18 November 1943.
	Science and agriculture in China and the West, Agricultural Association of China, Chungking, 25 February 1944.
	Report (typewritten and manuscript draft; printed copy in Chinese).
	Science and democracy, Hsinshingmiao, May 1944 and Kuoang Science Institute, August 1944.
	Science and industry, Yunnan Industrial Federation Club, 7 October 1944.
C.74	Abstract of a lecture on Science and civilization in China given before the Science Society of China, Cuiyung University, Meilan, October 1944.
	Report to Executive Committee of British Council, UK, 12 December 1944.
	Work of SSSCO, Universities China Committee, UK, 13 December 1944.
	Science and Britain's war effort, May 1945.
	Talk to Backs Federation CIC on industrialization of China, 8 October 1945.
C.76	Notes for lectures on work of SSSCO and position of science in China.
C.78	Notes for lectures on biochemical and biological subjects.
C.77	Notes for lectures on international science and politics.
C.78	Miscellaneous lecture notes.

Sino-British Science Cooperation Office

REPORTS, PUBLICATIONS AND BROADCASTS

Nature 152 (1943), 343-345, 372-374.

Includes Needham's reports to the British Council on his three years in China, detailed accounts of travels within China for the British Council and for *Nature*, and other publications arising from his work, including material relating to his book *Science Outpost* in which he described the work of the SBSCO. 22 (1944), 673-675.

C.79

'Report on a journey in the North-West, occupying Aug., Sept., Oct., Nov. 1943', 19pp typescript with extensive manuscript additions and corrections + 1p addendum.

Later re report, 13 March 1946.

C.80

'Science and technology in the North-West of China', 17pp typescript.

C.80, C.80

'Report of the first year's working of the Sino-British Science Cooperation Bureau', 13 (1944), 238-241.

C.80

C.81

'Report of a journey in the South East of China, occupying April, May & June 1944', 25pp typescript with manuscript additions and corrections.

C.80

Proof copy with manuscript corrections.

C.82

'Science in Kweichow and Kuangsi', 10pp typescript.

C.81, C.82

Nature 156 (1945), 496-499.

C.81

'Journeys in South-East China', account taken from Needham's report to the British Council, published in *Geographical Journal* 106 (1945), 83-84.

C.83

'Science and technology in China's far South-East', 8pp typescript.

Nature 157 (1946), 175-177.

C.83, C.84

Units related to in the reports of the Sino-British Science Co-operation Bureau. 2 folders.

C.84

'Report on a journey in the Southwest of China, occupying August, September and October, 1944', 24pp typescript with manuscript additions and corrections + addendum.

C.85

'Science in South-West China', 31pp typescript

Nature 152 (1943), 9-10, 36-37.

Sino-British Science Co-operation Office

REPORTS, PUBLICATIONS AND BROADCASTS

Includes Needham's report to the British Council on his three years in China, detailed account of travels within China for the British Council and for Nature, and other publications arising from his work, including material relating to his book *Science and Technology in the Far East* (1942), 83-84.

Report on a journey in the North-West, occupying Sept., Oct., Nov. 1943, 17pp typescript with extensive manuscript additions and corrections + 1p addendum.

Science and technology in the North-West of China, 17pp typescript.
Nature 153 (1944), 505-541.

Report of a journey in the South-East of China, occupying April, May & June 1944, 26pp typescript with manuscript additions and corrections.

Science in Kweichow and Kiangsi, 10pp typescript.
Nature 158 (1945), 455-493.

Journeys in South-East China, account taken from Needham's report to the British Council, published in *Geographical Journal* 160 (1945), 83-94.

Science and technology in China's far South-East, 5pp typescript.
Nature 157 (1945), 175-177.

Report on a journey in the Southwest of China, occupying August, September and October, 1944, 24pp typescript with manuscript additions and corrections + addendum.

Science in South-West China, 31pp typescript.
Nature 152 (1943), 9-10, 36-37.

Sino-British Science Cooperation Office

- C.86 'Science in western Szechuan', 22pp typescript.
Nature 152 (1943), 343-345, 372-374. Roxby, head of the British Council mission in China, to the British Council in November 1945. Needham added a set of complementary recommendations in a second memorandum.
- C.87 'Chungking mining and industrial exhibition', 11pp typescript.
Nature 153 (1944), 672-675. with extensive manuscript additions; Roxby's comments on Needham's memorandum, correspondence re the memoranda.
- C.88 'Report of a journey in the north of China occupying September and October 1945', 29pp typescript with extensive manuscript additions and corrections; letter re report, 13 March 1946.
8pp typescript and manuscript draft; 8pp typescript + addenda; related correspondence.
- C.89, C.90 'Report of the first year's working of the Sino-British Science Cooperation Bureau'.
Final memorandum to the British Council by Needham, 14 April 1946.
C.87-C.101
- C.89 30pp typescript. I am enclosed documents relating to the SBSCO. These included the second and third years' report which may be found at C.91, C.92 above.
- C.90 Proof copy with manuscript corrections.
C.87 Memorandum, 2pp typescript.
- C.91, C.92 'Report of second and third years' working of the Sino-British Science Co-operation Bureau'.
C.93 Report exchanged between Roxby and Needham on the conduct of British Council affairs in China, January - February 1946.
- C.91 47pp duplicated typescript.
C.88 Early drafts of Needham's letters to Roxby in this exchange.
- C.92 Proof copy with manuscript corrections.
C.100 Report to His Excellency President and Generalissimo Chiang Kai-Shek on the position and prospects of science and technology in China by Needham.
- C.93, C.94 'Lists referred to in the reports of the Sino-British Science Co-operation Bureau'. 2 folders. 1945.
This report arose from a conversation between the Generalissimo and Needham on the state of science in China.
C.93, C.94, C.92, C.91, C.88, C.87, C.86, C.85, C.84, C.83, C.82, C.81, C.80, C.79, C.78, C.77, C.76, C.75, C.74, C.73, C.72, C.71, C.70, C.69, C.68, C.67, C.66, C.65, C.64, C.63, C.62, C.61, C.60, C.59, C.58, C.57, C.56, C.55, C.54, C.53, C.52, C.51, C.50, C.49, C.48, C.47, C.46, C.45, C.44, C.43, C.42, C.41, C.40, C.39, C.38, C.37, C.36, C.35, C.34, C.33, C.32, C.31, C.30, C.29, C.28, C.27, C.26, C.25, C.24, C.23, C.22, C.21, C.20, C.19, C.18, C.17, C.16, C.15, C.14, C.13, C.12, C.11, C.10, C.9, C.8, C.7, C.6, C.5, C.4, C.3, C.2, C.1

Sino-British Science Co-operation Office

- C.95 Science in western Szechwan, 27pp. typescript.
- Nature 182 (1943), 342-345, 372-374.
- C.97 Changing mining and industrial conditions, 17pp. typescript.
- Nature 182 (1944), 672-675.
- C.98 Report of a journey in the north of China occupying September and October 1945. 29pp. typescript with extensive manuscript additions and corrections. Letter to report, 12 March 1946.
- C.99, C.90 Report of the first year's working of the Sino-British Science Co-operation Bureau.
- C.90 30pp. typescript.
- C.90 Proof copy with manuscript corrections.
- C.97, C.92 Report of second and third years' working of the Sino-British Science Co-operation Bureau.
- C.91 47pp. duplicated typescript.
- C.92 Proof copy with manuscript corrections.
- C.93, C.94 List referred to in the reports of the Sino-British Science Co-operation Bureau, 2 folders.

Sino-British Science Cooperation Office

C.95 Memoranda on future British Council policy in China.

A memorandum was sent by P.M. Roxby, head of the British Council mission in China, to the British Council in November 1945. Needham added a set of complementary recommendations in a second memorandum.

'Final version' of Needham's memorandum, 11pp typescript with extensive manuscript additions; Roxby's comments on Needham's memorandum, annotated by Needham; correspondence *re* the memoranda.

C.96 'Observations on the London-appointed staff members of the Scientific Office in Chungking' by Needham, 17 November 1945.

5pp typescript and manuscript draft; 6pp typescript + addenda; related correspondence.

C.97-C.101 'Final memorandum to the British Council' by Needham, 14 April 1946.

The memorandum enclosed documents relating to the SBSCO. These included the second and third years' report which may be found at C.91, C.92 above.

C.97-C.111 Memorandum, 2pp typescript.

C.98-C.105 Correspondence exchanged between Roxby and Needham on the conduct of British Council affairs in China, January - February 1946.

C.99 Early drafts of Needham's letters to Roxby in this exchange.

C.100 'Report to his Excellency President and Generalissimo Chiang Kai-Shek on the position and prospects of science and technology in China' by Needham, 56pp typescript final draft with manuscript corrections and additions, Chungking, Winter 1945.

This report arose from a conversation between the Generalissimo and Needham on the state of science in China.

C.101 Circulation list of copies of report to Chiang Kai-Shek; correspondence *re* report.

Sino-British Science Cooperation Office

- C.92
Memorandum on Sino-British Council policy in China.
A memorandum was sent by P. M. Rixby, head of the British Council mission in China, to the British Council in November 1945. It contained a list of complementary recommendations in a second memorandum.
Final version of memorandum, 11pp typescript with extensive manuscript additions. Rixby's comments on Newman's memorandum, annotated by Newman, correspondence in the margins.
- C.93
Observations on the London-appointed staff members of the Scientific Office in Chungking by Newman, 11 November 1945.
5pp typescript and manuscript draft, 5pp typescript + additions, related correspondence.
- C.97-C.101
Final memorandum to the British Council by Newman, 14 April 1946.
The memorandum enclosed documents relating to the SSCCO. These included the second and third years' report which may be found at C.91, C.92 above.
Memorandum, 2pp typescript.
- C.98
Correspondence exchanged between Rixby and Newman on the conduct of British Council affairs in China, January - February 1946.
- C.99
Early drafts of Newman's letters to Rixby in this exchange.
- C.100
Report to his Excellency President and Generalissimo Chiang Kai-Shek on the position and prospects of science and technology in China, by Newman, 5pp typescript final draft with manuscript corrections and additions, Chungking, Winter 1945.
This report arose from a conversation between the Generalissimo and Newman on the state of science in China.
- C.101
Circulation list of copies of report to Chiang Kai-Shek; correspondence in report.

Sino-British Science Cooperation Office

- C.102 C.111 *Chinese Science*, Pilot Press, London, 1944.
This short book gave an account of the state of Chinese science, profusely illustrated by photographs taken by Needham.
Correspondence; publicity material.
- C.112-C.114 'Acts Brevis Sinensis' file copy. Contents of Needham's folder so inscribed divided into three for ease of reference: duplicated typescript 'Scientific and technical notes from China' 1943-1945.
C.103 'Sino-British Scientific and Technical Cooperation', *Washington Scientist* 1 (1945), 30.
Reprint only.
- C.104-C.136 *Science Outpost*, ed. with D.M.M. Needham, Pilot Press, London, 1946.
Science Outpost gave an account of the history and work of the SBSCO. It brought together articles and reports, extracts from letters and from Dorothy Needham's diary and poems by Rewi Alley and others.
Many of the pieces which Needham included in the book are to be found elsewhere in this section.
C.115 Extracts from Needham's diary; accounts of activities of the National Academy of Peiping and the Academia Sinica.
C.104-C.111 'Science Outpost papers'. Contents of Needham's folder so inscribed divided into eight for ease of reference.
C.117 Descriptive illustrations for *Science Outpost* numbered captioned and listed.
- C.104, C.105 Correspondence with publishers, British Council and others 1946-1949. 2 folders.
C.118 Miscellaneous material.
- C.106 Contract with publishers; publicity material.
C.119-C.126 Typescript and manuscript draft of *Science Outpost* with extensive manuscript additions and corrections. 8 folders.
- C.107 Statements by Needham on his work for the SBSCO:
C.127 'Scientific & Technical Co-operation in China', two slightly different 3pp typescripts; 'Sino-British Scientific & Technical Co-operation', 3pp typescript;
C.128 Typescript and manuscript in three.
C.108 Talks by Needham: 'Scientific cooperation and Atomic energy', 3pp typescript for radio broadcast, 25 December 1945; 'Postscript [on impressions of China in wartime]', 10pp typescript.
C.129-C.135 Corrected proof copy of *Science Outpost*. 7 folders.

Sino-British Science Co-operation Office

- C.103 Chinese Science Pilot Project, London, 1944.
This short book gave an account of the state of Chinese science, profusely illustrated by photographs taken by Needham.
Correspondence, publicly retained.
- C.102 Sino-British Scientific and Technical Co-operation, Washington Scientist 1 (1945), 30.
Right only.
- C.104-C.136 Science Outlook, ed. with G.M.M. Needham, Pilot Press, London, 1948.
Science Outlook gave an account of the history and work of the SBSCO. It brought together articles and reports, extracts from letters and from Dorothy Needham's diary and poems by René Ailly and others.
Many of the pieces which Needham included in the book are to be found elsewhere in this section.
Science Outlook papers: Contents of Needham's folder so included divided into eight for ease of reference.
- C.104-C.108 Correspondence with publisher, British Council and others 1948-1949. 2 letters.
- C.109 Contact with publisher; publicly retained.
- C.107 Statements by Needham on his work for the SBSCO.
Scientific & Technical Co-operation in China: two slightly different 3pp typewritten; Sino-British Scientific & Technical Co-operation, 3pp typewritten.
- C.106 Talks by Needham: Scientific co-operation and Atomic energy, 3pp typewritten for radio broadcast, 28 December 1948; Postscript on impressions of China in wartime, 10pp typewritten.

Sino-British Science Cooperation Office

- C.109-C.111 Miscellaneous typescript and duplicated typescript papers on Chinese science, principally biochemistry and chemistry, and related subjects. 3 folders.
- C.112-C.114 'Acta Brevia Sinensia file copy'. Contents of Needham's folder so inscribed divided into three for ease of reference: duplicated typescript 'Scientific and technological notes from China', 1943-1945.
- These notes were prepared by the Natural Science Society of China and distributed by the British Council through the SBSCO. They give accounts of work in progress in Chinese research institutions.
- C.115-C.118 'Material + [not] used in Sci Outpost'. Contents of Needham's folder so inscribed divided into four for ease of reference.
- C.115 Typescript narratives by Rewi Alley.
- C.116 Extracts from Needham's diary; accounts of activities of the National Academy of Peiping and the Academia Sinica.
- C.117 'Definitive illustrations for Science Outpost numbered captioned and listed'.
- ADMINISTRATIVE**
- C.118 Miscellaneous material.
- C.119-C.126 Typescript and manuscript draft of *Science Outpost* with extensive manuscript additions and corrections. 8 folders.
- C.127 Typescript and manuscript lists of illustrations.
- C.128 Typescript and manuscript indexes.
- C.129-C.135 Corrected proof copy of *Science Outpost*. 7 folders.

Sino-British Science Cooperation Office

C.109-C.111	Miscellaneous typescript and related typescript papers on Chinese science, primarily biochemistry and chemistry, and related subjects. 3 folders.
C.112-C.114	Acta Sinica Sinensis file copy. Contents of Needham's folder so far as divided into three for years of reference: biological typescript, Scientific and technological notes from China, 1943-1945.
	These notes were prepared by the Natural Science Society of China and distributed by the British Council through the SSCO. They give accounts of work in progress in Chinese research institutions.
C.115-C.118	Material 4 (not used in Sci Outlook). Contents of Needham's folder so far as divided into four for ease of reference.
C.119	Typescript narratives by Paul Alley.
C.120	Extracts from Needham's diary; accounts of activities of the National Academy of Peking and the Academia Sinica.
C.121	Definitive illustrations for Science Outlook numbered captioned and labeled.
C.122	Miscellaneous material.
C.123-C.128	Typescript and manuscript draft of Science Outlook with extensive manuscript additions and corrections. 6 folders.
C.127	Typescript and manuscript lists of illustrations.
C.128	Typescript and manuscript indexes.
C.129-C.130	Corrected proof copy of Science Outlook. 7 folders.

Sino-British Science Cooperation Office

C.136 Miscellaneous manuscript notes etc re *Science Outpost*; letter of appreciation, February 1949.

C.137 BBC radio broadcasts: 2pp typescript and 'List of medical supplies taken to China by Dr Sargent', 2pp typescript.
'Observation Post', broadcast various times 10-14 October 1947. This included a short interview with Needham on Chinese science.

C.144-C.146 Duplicated typescript transcript.

C.144 'Sunday Discussion' on 'How far can an Eastern University usefully draw upon Western Culture?', broadcast by Far Eastern Service 16 October 1949. Needham and Sir John Sargent were the speakers.

C.145 Correspondence with the BBC; Needham's manuscript notes; duplicated typescript transcript.

C.146 Correspondence re supply of scientific and medical equipment, April - June 1943.
C.138 'Journal of the North-West Tour', *The Times Literary Supplement*, 10 September 1993.

This was an extract from Needham's unpublished journal of his tour to this area of China in the autumn of 1943. See above C.79, C.80.

MISCELLANEOUS MATERIAL

ADMINISTRATIVE

Membership of Chinese learned societies:

C.147 Correspondent Member, National Academy of Peking, 12 January 1942.

C.139, C.140 'Master copy [of the] filing hand list'. 2 folders.

Typescript and manuscript list for SBSCO filing system. The classes of document provided for by the listing are: Reports, Office [papers], Correspondence (General), Visits, Information and exchanges, Printed matter: books, Printed matter: periodicals and microfilms, Scientific supplies [and] transport of all supplies, Vehicles, Enterprises, Films & radio, Music, Medicine, and International contacts.

C.148 Honorary Member, Science Society of China, July 1943.

C.141 'Tentative classification of Chinese universities as to standards' by Needham, 2pp typescript, 12 January 1946; list of 'Nominations for Professorships', 2pp typescript, February 1946; 'Scheme of organisation of science in China', 3pp typescript, nd; 'List of Diplomatic officials of the British Embassy', 2pp typescript, nd.

Honorary Member, Natural Science Society of China, 28 February 1946.

Sino-British Science Cooperation Office

Miscellaneous manuscript notes and 12 Science Cooper. letter of appreciation, February 1948.

C.130

C.142

BBC radio broadcasts

C.131

C.143

Discussion Post, broadcast between 19-14 October 1947. This included a short interview with Needham on Chinese science.

Duplicated typescript transcript.

Sunday Discussion on How far can an Eastern University really draw upon Western Culture? broadcast by Far Eastern Service 16 October 1948. Needham and Sir John Ewart were the speakers.

Correspondence with the BBC; Needham's manuscript notes; duplicated typescript transcript.

C.132

C.144

Journal of the North-West Tour, The Times Library Supplement, 10 September 1947.

This was an extract from Needham's unpublished journal of his tour to the area of China in the autumn of 1943. See above C.75, C.80.

ADMINISTRATIVE

C.133, C.140

C.145

C.146

Master copy of the filing hand list, 2 folders.

Typescript and manuscript list for BBCSO filing system. The classes of document provided for by the filing are: Reports, Office papers, Correspondence (General), Visits, Information and exchange, Printed matter, books, Printed matter, periodicals and microfilm, Scientific supplies [and] transport of all supplies, Vehicles, Enterprises, Films & radio, Music, Medicine, and international contacts.

C.141

C.147

Tentative classification of Chinese universities as to standards by Needham, 2pp typescript, 12 January 1946; list of Memoranda for Professorships, 2pp typescript, February 1948; Scheme of organization of science in China, 3pp typescript, nd; List of Diplomatic officials of the British Embassy, 2pp typescript, nd.

Sino-British Science Cooperation Office

- C.142 Lists of orders of scientific supplies for Chinese universities and of 'missing orders', sent to Dorothy Needham 15 March 1946.
- C.143 'List of drugs for China', 2pp typescript and 'List of medical supplies taken to China by Dr Sanders', 2pp typescript.
- C.144-C.146 Miscellaneous administrative correspondence and papers.
- C.144 Correspondence and papers *re* travel, 1944-1946.
- C.145 Correspondence *re* theft of clothes from Peking hotel, March 1946.
- C.146 Correspondence *re* supply of scientific and medical equipment, April - June 1946.

MISCELLANEOUS MATERIAL

- C.147-C.149 Membership of Chinese learned societies:
- C.147 Correspondent Member, National Academy of Peiping, 19 January 1943.
- Correspondent Member, Chemical Institute and Zoological and Botanical Institute, Academia Sinica, 1 March 1943.
- Honourable Member, Chinese Chemical Society, Pehpie Chapter, 15 June 1943.
- C.148 Honorary Member, Science Society of China, July 1943.
- Honorary Member, Chinese National Farmers' Association, 29 October 1944.
- Corresponding Research Fellow, Institute of Zoology, Academia Sinica, 24 May 1945.
- Honorary Member, Natural Science Society of China, 28 February 1946.

Sino-British Science Cooperation Office

- C.142 List of orders of scientific supplies for Chinese universities and of 'hibing orders', sent to University libraries 15 March 1945.
- C.143 List of drugs for China, 25p typescript and List of medical supplies taken to China by Dr. Bantam, 25p typescript.
- C.144-C.145 Miscellaneous administrative correspondence and papers.
- C.144 Correspondence and papers in travel, 1944-1945.
- C.145 Correspondence relating to studies from Peking Hotel, March 1945.
- C.146 Correspondence in supply of scientific and medical equipment, April - June 1945.

MISCELLANEOUS MATERIAL

- C.147-C.148 Membership of Chinese learned societies.
- C.147 Correspondent Member, National Academy of Peking, 19 January 1945.
- Correspondent Member, Chemical Institute and Zoological and Botanical Institute, Academia Sinica, 1 March 1945.
- Honorary Member, Chinese Chemical Society, Peking Chapter, 18 June 1945.
- C.148 Honorary Member, Science Society of China, July 1945.
- Honorary Member, Chinese National Farmers' Association, 29 October 1944.
- Corresponding Research Fellow, Institute of Zoology, Academia Sinica, 24 May 1945.
- Honorary Member, Natural Science Society of China, 28 February 1946.

Sino-British Science Cooperation Office

- C.149 Other Chinese societies.
- C.150 Appointment as Advisor to Chinese Air Force Research Bureau.
- C.151 Manuscript notes by Needham on itineraries, travel arrangements etc.
- C.152 Brochure of UNESCO exhibition 'L'effort de Guerre fourni par la Chine dans le domaine de la science et le travail de l'Office de Cooperation Scientifique de Sino-Britannique', with photographs of the exhibition display.
- C.153 Papers by R.A. Silow: 'The scientific activities of the British Council in China', *Science and Technology in China* 1 (1948); 'Mission to China', *Empire Cotton Growing Review* 27 (1950).
- C.154-C.156 Printed material: pamphlets, articles, journals etc. 3 folders.
- C.157-C.159 Press cuttings.
- C.157 Chinese language. Folder also includes printed notices of surrender of Italy 1943 and the Japanese surrender.
- C.158 English language.
- C.159 Russian language. The cuttings are of the Red Army victory parade in Moscow.
- C.160 Miscellaneous typescripts. Includes papers on Chinese cooperatives by Rewi Alley.

Sino-British Science Cooperation Office

- C.149 Other Chinese material.
- C.150 Appointment as Advisor to Chinese Air Force Research Bureau.
- C.151 Manuscript notes by Huxford on chemical, travel arrangements etc.
- C.152 Brochure of UNESCO exhibition 'L'effort de la Guerre froide par la Chine dans le domaine de la science et le travail de l'Organisation Scientifique de Sino-Britannique', with photographs of the exhibition display.
- C.153 Papers by R.A. Sizer: 'The scientific activities of the British Council in China: Science and Technology in China' (1948); 'Mission to China: Empire Cotton Growing Review 27 (1950).
- C.154-C.156 Printed material: pamphlets, articles, journals etc. 3 folders.
- C.157-C.159 Press cuttings.
- C.157 Chinese language. Folder also includes printed notices of number of Italy 1943 and the Japanese surrender.
- C.158 English language.
- C.159 Russian language. The cuttings are of the Red Army victory parade in Moscow.
- C.160 Miscellaneous typescripts. Includes papers on Chinese cooperatives by Rowi Alley.

Sino-British Science Cooperation Office

Memorabilia

- C.161 Social functions and contacts.
- C.162 Prints, drawings and paintings.
- C.163 Unidentified Chinese language material.
- C.164 Photographs.
Group photograph of Chengtu Committee for aiding Sino-British Science Cooperation, with key. Needham is featured.
'Miaotaidze photos for Δ [Dorothy Needham]'. Photographs of Taoist temple at Miaotaidze, identified on verso.
Group photograph of members of Chinese learned society. Needham is featured (twelfth from the right, second row from bottom).
- C.165 SBSCO stationery.
- C.166 Miscellaneous memorabilia. Includes 8pp typescript 'Tibetan Folk Songs, tr [into French and German] Yü Tao-Chuen'.

Sino-British Science Cooperation Office

Memoranda		
C.161	Social functions and contacts.	
C.162	Print, drawings and paintings.	
C.163	Unidentified Chinese language materials.	
C.164	Photographs.	
	Group photograph of Chengtu Committee for aiding Sino-British Science Cooperation with key. Needham is seated.	
	Miscellaneous pictures for a Dorothy Needham. Photographs of Taoist temple at Miao-shih, identified on verso.	
	Group photograph for members of Chinese learned society. Needham is seated (seventh from the right, second row from bottom).	
C.165	SSCC stationery.	
C.166	Miscellaneous memoranda. Includes 8pp typescript Tibetan Folk Songs, 1v (into French and German) Yu Tao-Chun.	

J. Needham
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SECTION D

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND
CULTURAL ORGANISATION (UNESCO)

D.1-D.365

Organisation formally. J.S. Huxley was elected its first Director General and Needham was appointed Director of the Natural Sciences Section. He served until April 1948.

In October 1942 the Conference of Allied Ministers of Education (CAME) was formed to discuss the post-war educational needs of Allied countries, focusing in particular on those under Axis occupation. Various committees were created under the auspices of CAME and by 1944 the Conference had developed into a far-reaching organisation whose remit covered almost all aspects of the cultural reconstruction of occupied Europe. It was felt that after the war the example of this body, which was showing the possibilities of international cooperation in cultural and educational matters, should not be forgotten but brought under the auspices of the United Nations. Accordingly in March 1944 plans were advanced for the establishment of a United Nations Organisation for Educational and Cultural Reconstruction. In April 1944 the US State Department accepted the desirability of a 'United Nations Educational and Cultural Organisation' and later that year the UK government also gave its support to the creation of such a body. CAME began drafting plans for its transformation into UNESCO and published its draft proposals.

D.201-D.318

NATURAL SCIENCES SECTION

Needham was in China during this period with the Sino-British Science Cooperation Office (see section C). He believed that scientific cooperation should come within the remit of the post-war United Nations and in July 1944 he prepared a 'Memorandum on an international science co-operation service' (D.2). This was circulated by the British Council. In December 1944 Needham sent out a second memorandum to the UK parliamentary and scientific committee on 'Measures for the organisation of international co-operation in science in the post-war period' (D.6). Needham may have been the first to use the abbreviation 'UNESCO', in a manuscript note of February 1945, and his third memorandum (D.12-D.14) on 'The place of science and international scientific co-operation in post-war world organisation', April 1945, publicly advocated the inclusion of the word 'Scientific' in the title of the organisation being planned. In the same month the drafting organisation for the United Nations Organisation for Educational and Cultural Cooperation rejected the inclusion of the word 'Scientific' but renewed pressure, in part through the wide distribution of Needham's third memorandum, and support, particularly from J.G. Crowther and US colleagues, succeeded in keeping the issue open.

In November 1945 the United Nations Educational and Cultural Conference held in London to draft the constitution of the new body agreed to include the word 'Scientific' in its title and to give it responsibilities in international scientific cooperation. A Preparatory Committee was formed and the first session of the UNESCO General Conference met in Paris in November 1946 to establish the

SECTION D
UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND
CULTURAL ORGANIZATION (UNESCO)
D-1-D-245

In October 1945 the Conference of Allied Ministers of Education (CAME) was formed to discuss the post-war educational needs of Allied countries, focusing in particular on those under Axis occupation. Various committees were created under the auspices of CAME and by 1944 the Conference had developed into a far-reaching organization whose remit covered almost all aspects of the cultural reconstruction of occupied Europe. It was felt that after the war the example of this body, which was showing the possibilities of international cooperation in cultural and educational matters, should not be forgotten but brought under the auspices of the United Nations. Accordingly in March 1944 plans were advanced for the establishment of a United Nations Organization for Educational and Cultural Reconstruction. In April 1944 the US State Department accepted the desirability of a United Nations Educational and Cultural Organization, and later that year the UK Government also gave its support to the creation of such a body. CAME began drafting plans for its transformation into UNESCO and published its draft proposals.

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United Nations Educational, Scientific and Cultural Organisation

Organisation formally. J.S. Huxley was elected its first Director General and Needham was appointed Director of the Natural Sciences Section. He served until April 1948.

Needham gave an account of the work of UNESCO in his Robert Boyle lecture on Science and International Relations, 1 June 1948 (see G.70, G.71).

The material is presented as follows:

D.1-D.39

EARLY HISTORY OF UNESCO

D.40-D.200

UNESCO GENERAL

D.201-D.316

NATURAL SCIENCES SECTION

D.317-D.339

UNITED NATIONS RESEARCH LABORATORIES

D.340-D.358

BRITISH COMMITTEE FOR CO-OPERATION
WITH UNESCO IN THE NATURAL SCIENCES

D.359-D.365

FOOD AND AGRICULTURE ORGANIZATION OF
THE UNITED NATIONS

United Nations Educational, Scientific and Cultural Organisation

EARLY HISTORY OF UNESCO

from Nature, 25 November 1944, featuring Needham's memorandum published as 'An international science cooperation service', and editorial comment 'Dissemination of scientific information' focusing on Needham's article; brief correspondence re re-publication of the article.

Most of this material (D.1-D.32) was found in three of Needham's folders inscribed 'CAME UNECO and the origins of UNESCO', with further descriptions of the contents thereon. These descriptions are reproduced in the catalogue entries.

D.1-D.11

'Dr Joseph Needham's Archives pt. 1 From the T.V. Sung conversations of Dec 1943 to my return to Chungking in April 1945 after the Washington negotiations. Memo I Chungking July 1944 Memo II London Dec. 1944'. Contents of folder so inscribed divided into eleven for ease of reference.

D.1

Background material. Includes 'First statement of the conception of an international science cooperation service, in a letter from Dr Joseph Needham, FRS (Director of the Sino-British Science Cooperation Office) to H.E. Sung Tze-Wen (T.V. Soong), Minister of Foreign Affairs, Chungking', 29 December 1943; and 'Suggestions for the development of the Conference of Allied Ministers of Education into the United Nations Organization for Educational and Cultural Reconstruction', annotated 'J.G.C[rowth] 12.4.44', with comments and amendments arising.

suggested for UNECO by G.H. Kalsauer, the US delegate to CAME, and manuscript notes and typescript comments thereon by Needham.

D.2

'Memorandum on an international science co-operation service' by Needham, Chungking, July 1944. This was the first of Needham's three memoranda.

Manuscript notes; 19pp typescript and 9pp duplicated typescript drafts; 15pp duplicated typescript.

In February - March 1945 Needham visited the United States, during which visit he discussed his plans for future international cooperation in science with American colleagues.

D.3

Correspondence re distribution of the memorandum. Includes list of recipients sent to J.G. Crowther, 25 July 1944.

D.8

Correspondence and papers, March 1945.

D.4

Correspondence from those receiving copies of the memorandum, including comments thereon, August - December 1944.

D.10

'The place of science in a United Nations Educational and Cultural Organisation', March 1945. This was a preliminary version of Needham's third memorandum and was not widely circulated.

D.5

'A Memorandum on the activities and future plans of international scientific organizations. 1919-1944', 48pp typescript, annotated by Needham 'WB Cannon & RM Field Undated but I think Oct 1944'.

...

United Nations Educational, Scientific and Cultural Organization

EARLY HISTORY OF UNESCO

Most of the material (D.1-D.5) was found in three of Needham's folders marked 'CAUSE UNESCO' and the origin of UNESCO, with further descriptions of the various bodies. These descriptions are reproduced in the catalogue below.

Dr Joseph Needham's Archive at 1 From the T.V. Burg conversations of Dec 1945 to my return to Chungking in April 1946 after the Washington negotiations. Memo I Chungking July 1944. Memo II London Dec. 1944. Contents of folder to be added divided into eleven for ease of reference.

Background material. Includes First statement of the conception of an international science cooperation service in a letter from Dr Joseph Needham, FRS (Director of the Sino-British Science Cooperation Office) to H.E. Burg (T.V. Burg), Minister of Foreign Affairs, Chungking, 29 December 1945; and 'Suggestions for the development of the Conference of Allied Ministers of Education into the United Nations Organization for Educational and Cultural Reconstruction', annotated 'J.G. Crowther' 12.4.46, with comments and amendments relating.

Memorandum on an international science co-operation service, by Needham, Chungking, July 1944. This was the first of Needham's three memoranda.

Manuscript notes, 18pp typescript and 6pp duplicated typescript dated 18pp duplicated typescript.

Correspondence in relation of the memorandum. Includes list of recipients sent to J.G. Crowther, 25 July 1944.

Correspondence from those receiving copies of the memorandum, including comments thereon, August - December 1944.

A Memorandum on the activities and future plans of international scientific organizations, 1919-1944, 48pp typescript, annotated by Needham 'WB' Cannon & BM Field, United Kingdom Oct 1944.

United Nations Educational, Scientific and Cultural Organisation

Pages from *Nature*, 25 November 1944, featuring Needham's memorandum published as 'An international science cooperation service', and editorial comment 'Dissemination of scientific information' focusing on Needham's article; brief correspondence *re* re-publication of the article.

Needham had not intended the memorandum for publication; it was sent to *Nature* for their information only.

D.12-D.24 Dr Joseph Needham's Archives pt. 2 From April 1945 to end December 1945. Memo III Chungking April 1945. Contents of folder as inscribed

D.6 'Memorandum addressed to the parliamentary and scientific committee (December 1944). Measures for the organisation of international co-operation in science in the post-war period', London, December 1944. This was the second of Needham's memoranda.

D.12-D.14 4pp and 5pp typescript drafts; 5pp duplicated typescript.

D.12 Typescript draft with extensive manuscript corrections and additions.

D.7 Correspondence and papers, December 1944 - January 1945.

D.13 This typescript 'Master copy 2 for retranscribing in CN' referred to original

D.8 Correspondence and papers, February 1945. Includes list of 'Activities suggested for UNECO' by G.N. Kefauver, the US delegate to CAME, and manuscript notes and typescript comments thereon by Needham.

D.14 One of Needham's notes records the three requirements he felt were needed 'To make UNECO work'. These were the addition of the word 'Scientific' in the title, a reference to applied (as well as pure) science in the preamble and a good scientific director. Needham uses the abbreviation UNESCO, perhaps the first occasion on which it was used.

D.15 In February - March 1945 Needham visited the United States, during which visit he discussed his plans for future international cooperation in science with American colleagues.

D.16 Correspondence and papers, May 1945, chiefly re attempt to persuade CAME to widen the scope and include the word 'Scientific' in the title of UNESCO, at their meeting of 16 May.

D.9 Correspondence and papers, March 1945.

D.17 Correspondence re distribution of third memorandum, May - July 1945.

D.10 'The place of science in a United Nations Educational and Cultural Organisation', March 1945. This was a preliminary version of Needham's third memorandum and was not widely circulated.

Manuscript and typescript draft with extensive correction; letter *re* distribution of memorandum, 16 March.

D.18 Papers, chiefly re meetings of CAME, June - August 1945. Includes '1st proof' of CAME's 'Draft proposals for an Educational and Cultural Organisation of the United Nations', 9 July.

United Nations Educational, Scientific and Cultural Organization

- Pages from Report 25 November 1944. Featuring Needham's memorandum published as 'An international science cooperation service, and editorial comment' (Discussion of a scientific international service on Needham's article) that correspondence is the publication of the article.
- Needham had not received the memorandum for publication; it was sent to him for his information only.
- Memorandum addressed to the parliamentary and scientific committee (December 1944). (Drafted for the organization of international co-operation in science in the post-war period, London, December 1944. This was the second of Needham's memoranda.)
- App and typewritten draft: 2pp. dated 1944.
- Correspondence and papers, December 1944 - January 1945.
- Correspondence and papers, February 1945. Includes list of 'Activities suggested for UNESCO' by G.H. Keeney, the US delegate to CAME, and manuscript notes and typewritten comments thereon by Needham.
- One of Needham's notes records the three requirements he felt were needed to make UNESCO work. These were the addition of the word 'scientific' in the title, a reference to applied (as well as pure) science in the preamble and a good scientific director. Needham uses the abbreviation UNESCO, perhaps the first occasion on which it was used.
- In February - March 1945 Needham visited the United States, during which visit he discussed his plans for future international cooperation in science with American colleagues.
- Correspondence and papers, March 1945.
- The place of science in a United Nations Educational and Cultural Organization, March 1945. This was a preliminary version of Needham's third memorandum and was not widely circulated.
- Manuscript and typewritten draft with extensive correction; letter in distribution of memorandum, 16 March.

United Nations Educational, Scientific and Cultural Organisation

- D.11 Correspondence and papers, April - May 1945. Includes papers of CAME relating to establishment of United Nations Organisation for Educational and Cultural Reconstruction. At the 10 April meeting of the Drafting Committee drawing up the constitution of the body J.G. Crowther attempted, unsuccessfully, to insert 'Scientific' into the title.
- D.12-D.24 'Dr Joseph Needham's Archives pt. 2 From April 1945 to end December 1945. Memo III Chungking April 1945'. Contents of folder so inscribed divided into thirteen for ease of reference.
- D.12-D.14 'The place of science and international scientific co-operation in post-war world organisation', Chungking, 28 April 1945. This was the third of Needham's three memoranda.
- D.12 Typescript draft with extensive manuscript corrections and additions. Nations Educational and Cultural Conference.
- D.13 46pp typescript 'Master-copy 9 for mimeographing in CK' retained in original folder.
- D.14 31pp duplicated typescript + appendices and index.
- D.15 Miscellaneous manuscript and typescript notes, including lists of those to receive a copy of third memorandum.
- D.16 Correspondence and papers, May 1945, chiefly *re* attempt to persuade CAME to widen the scope and include the word 'Scientific' in the title of UNECO, at their meeting of 16 May.
- D.17 Correspondence *re* distribution of third memorandum, May - July 1945. Includes letters from recipients.
- Distribution of the memorandum in the UK was chiefly through J.G. Crowther
- D.18 Papers, chiefly *re* meetings of CAME, June - August 1945. Includes '1st proof' of CAME's 'Draft proposals for an Educational and Cultural Organisation of the United Nations', 9 July.

United Nations Educational, Scientific and Cultural Organization

- D.18 Paper, chiefly in meetings of CAME, June - August 1945. Includes 1st proof of CAME's 1st proposal for an Educational and Cultural Organization of the United Nations, 9 July.
- D.17 Correspondence in distribution of 1st memorandum, May - July 1945. Includes letters from recipients.
- D.16 Correspondence and papers, May 1945, chiefly in attempt to persuade CAME to widen the scope and include the word 'Scientific' in the title of UNESCO, at their meeting of 18 May.
- D.15 Miscellaneous manuscript and typescript notes, including lists of those to receive a copy of 1st memorandum.
- D.14 51pp duplicated typescript + appendices and index.
- D.13 46pp typescript Master-copy 2 for mimeographing in UK, retained in original folder.
- D.12 Typescript draft with extensive manuscript corrections and additions.
- D.12-D.14 The place of science and international scientific co-operation in post-war world organization. (Typescript, 28 April 1945). This was the first of Woodman's three memoranda.
- D.12-D.14 Dr Joseph Woodman's lecture pt 2, from April 1945 to end December 1945. Memo in (Typescript, April 1945). Contents of letter to President divided into three for ease of reference.
- D.11 Correspondence and papers, April - May 1945. Includes papers of CAME relating to establishment of United Nations Organization for Educational and Cultural Reconstruction. At the 10th meeting of the Drafting Committee drawing up the constitution of the body, J.G. Crother attempted unsuccessfully to insert 'Scientific' into the title.

United Nations Educational, Scientific and Cultural Organisation

- D.19 Correspondence from recipients of third memorandum, including comments thereon, August 1945. *negotiation at the end of the year, and UNESCO appointments policy.*
- D.20 Correspondence from recipients of third memorandum, including comments thereon, September 1945. *the 1947. Includes Needham's letters to Dorothy Needham explaining the situation and current developments at UNESCO.*
The memorandum was considered at a meeting of the Science Commission of CAME on 11 September. They recommended that it be put before CAME.
- D.21 Correspondence and papers, October 1945, chiefly comments on third memorandum. *Correspondence, August - September 1947. Chiefly re extension of Needham's appointment into 1948.*
- D.22 Correspondence and papers, November 1945, chiefly *re* United Nations Educational and Cultural Conference. *Correspondence and papers, October 1945 - January 1948. Chiefly re administrative problems within UNESCO.*
- D.23 'CAME photos'. Contents of Needham's envelope so inscribed: photographs of members of CAME, identified on verso. Probably taken during the Educational and Cultural Conference. *The Conference, meeting in London, signed the constitution establishing UNESCO on 16 November. Includes 'Personal statement of Joseph Needham, FRS to the members of the Advisory Committee on the organisation and administration of UNESCO', 3pp typescript + annexes, 7 February.*
- D.24 Correspondence and papers, December 1945. *'United Historical'. Contents of Needham's folder so inscribed divided into five for ease of reference.*
- D.25-D.32 'Dr Joseph Needham's Archives From Jan. 1946 - Vol. III'. Contents of folder so inscribed divided into eight for ease of reference. *Final scientific co-operation in post-war world organisation. Chungking, 26 April 1945.*
- D.25 Correspondence and papers, January - April 1946. Includes telegram sent to Needham in Chungking *re* his appointment as Director of Natural Sciences of UNESCO. *62pp duplicated typescript. The document has been reproduced on poor*
- D.26 Correspondence, May - November 1946. *Master-copies of letters sent covering the final version of third*
notes including lists of recipients;
typescript drafts of list of contents of third memorandum with extensive
manuscript correction.

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- D.18 Correspondence from requests of first memorandum, including comments
thereon, August 1945.
- D.19 Correspondence from requests of first memorandum, including comments
thereon, September 1945.
- The memorandum was considered at a meeting of the Science Committee
of CAMS on 17 September. They recommended that it be put before CAMS.
- D.21 Correspondence and papers, October 1945, chiefly comments on first
memorandum.
- D.22 Correspondence and papers, November 1945, chiefly in United Nations
Educational and Cultural Conference.
- The Conference, meeting in London, signed the constitution establishing
UNESCO on 16 November.
- D.23 CAMS photos, Contents of Neetham's envelope as described: photographs
of members of CAMS, identified on verso. Probably taken during the
Educational and Cultural Conference.
- D.24 Correspondence and papers, December 1945.
- D.25-D.32 Dr Joseph Neetham's Activities from Jan. 1946 - Vol. III. Contents of
folder as described divided into eight lots each of reference to the lot in
which it is placed.
- D.25 Correspondence and papers, January - April 1946. Includes telegram sent
to Neetham in Chungking in his appointment as Director of Natural
Sciences of UNESCO.
- D.26 Correspondence, May - November 1946.
- D.27 Papers likely to be in the possession of CAMS, from 1946, relating to
work of CAMS, such as requests for the International and Cultural
Conference, etc.

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- D.27 Correspondence and manuscript notes, February - April 1947. Chiefly *re* Needham's intended resignation at the end of the year, and UNESCO appointments policy.
- D.28 Correspondence, May - June 1947. Includes Needham's letters to Dorothy Needham explaining the situation and current developments at UNESCO.
- D.29 Correspondence, August - September 1947. Chiefly *re* extension of Needham's appointment into 1948.
- D.30 Correspondence and papers, October 1947 - January 1948. Chiefly *re* administrative problems within UNESCO.
- D.31 Correspondence and papers, February - March 1948. Chiefly *re* administrative problems. Includes 'Personal statement of Joseph Needham, FRS to the members of the Advisory Committee on the organisation and administration of UNESCO', 9pp typescript + annexes, 7 February.
- D.32 Correspondence and papers, April - May 1948. *Re* Needham's departure from UNESCO.
- D.33-D.37 GENERAL 'Unesco Historical'. Contents of Needham's folder so inscribed divided into five for ease of reference.
- D.33 Third memorandum, 'The place of science and international scientific co-operation in post-war world organisation', Chungking, 28 April 1945.

42pp duplicated typescript. The document has been reproduced on poor quality Chinese paper and probably was intended for distribution by Needham himself within China.
- D.34 Master-copies of letters sent covering the final version of third memorandum; miscellaneous manuscript notes including lists of recipients; typescript drafts of list of contents of third memorandum with extensive manuscript correction.

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- D.37 Correspondence and manuscript notes, February - April 1947. Chiefly in Needham's intended registration at the end of the year, and UNESCO appointments policy.
- D.38 Correspondence, May - June 1947. Includes Needham's letters to Dorothy Needham explaining the situation and current developments at UNESCO.
- D.39 Correspondence, August - September 1947. Chiefly in extension of Needham's appointment into 1948.
- D.40 Correspondence and papers, October 1947 - January 1948. Chiefly in administrative problems within UNESCO.
- D.41 Correspondence and papers, February - March 1948. Chiefly in administrative problems. Includes Personal statement of Joseph Needham, FRS to the members of the Advisory Committee on the organization and administration of UNESCO, 2pp typescript + annexes, 7 February.
- D.42 Correspondence and papers, April - May 1948. Re Needham's departure from UNESCO.
- D.39-D.47 UNESCO Historical. Contents of Needham's folder as searched divided into five for ease of reference.
- D.38 Third memorandum. The piece of science and international scientific co-operation in post-war world organization, Chungking, 28 April 1946. 42pp duplicated typescript. The document has been reproduced on poor quality Chinese paper and probably was intended for distribution by Needham himself within China.
- D.34 Master-copies of letters sent covering the final version of third memorandum; miscellaneous manuscript notes including lists of recipients; typescript drafts of list of contents of third memorandum with extensive manuscript correction.

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D.35 *General Conference* Copy of the constitution of UNESCO as agreed in London, 16 November 1945, 16pp duplicated typescript.

D.36 'Archives of UNESCO. Deposition of Papers relative to the Conference of Allied Ministers of Education and the inclusion of Pure and Applied Science in the projected United Nations Organisation for Education and Culture' by Needham, 3pp duplicated typescript, 27 January 1947; correspondence *re* research on the origins of UNESCO, 1947-1949.

D.37 Miscellaneous printed material.

D.38 Correspondence *re* research on origins of UNESCO, 1966-1977. Includes correspondence arising from *New Statesman* article 'The "S" in Unesco' by Nigel Calder, and correspondence with D. Mylonas (see D.39).

D.39 'La Conference des Ministres Allies de l'Education (Londres 1942-1945) de la cooperation educative dans l'Europe en guerre a la creation d'une organisation internationale', by D. Mylonas, Ph.D. thesis for University of Geneva. Sent to Needham 16 October 1972 (see D.38).

Retained in original binding.

UNESCO GENERAL

D.40-D.111 General Conference

D.112-D.137 Executive

D.138-D.160 Correspondence

D.161-D.176 Scientific and Cultural History of Mankind

D.177-D.186 Publicity and information literature

D.187-D.200 Miscellaneous

United Nations Educational, Scientific and Cultural Organisation

D.35	Copy of the constitution of UNESCO as signed in London, 16 November 1945, 18pp. original papers.
D.36	'Archives of UNESCO. Deposit of Papers relating to the Conference of Allied Ministers of Education and the Institute of Pure and Applied Science in the proposed United Nations Organisation for Education and Culture' by Headman, 3pp. original papers, 27 January 1947; correspondence in relation to the origin of UNESCO, 1947-1948.
D.37	Miscellaneous printed material.
D.38	Correspondence in relation to origin of UNESCO, 1938-1937. Includes correspondence relating to the 'B' in UNESCO, by Nigel Carter, and correspondence with D. Mylones (see D.39).
D.39	'A Conference des Ministres Allés de l'Éducation (London 1942-1943) de la coopération éducative dans l'Europe en guerre a la création d'une organisation internationale', by D. Mylones, Ph.D. thesis for University of Geneva. Sent to Headman 18 October 1972 (see D.38). Retained in original binding.
D.40-D.41	General Conference and Executive Board
D.42-D.43	Executive Board
D.44-D.45	Correspondence
D.46-D.47	Scientific and Cultural History of Mankind
D.48-D.49	Publicity and Information literature
D.50-D.51	Miscellaneous

UNESCO GENERAL

United Nations Educational, Scientific and Cultural Organisation

General Conference

Third Session of the General Conference, Beirut, 17 November - 11 December 1948.

Needham attended the conference in a dual official capacity - as Honorary Member of the Council of the League of Nations and as Honorary Member of the General Conference. The General Conference was the chief forum and governing body of UNESCO. At its annual meetings the Executive of UNESCO was elected by the delegates. At the conference he delivered a lecture on 'The unity of science: Asia's indispensable contribution'.

D.40-D.42 First General Conference, Paris, 19 November - 10 December 1946. In universities in Ankara and Istanbul.

D.40 'Guide de la première Conférence générale et du mois de l'U.N.E.S.C.O.' (programme and information booklet).

D.41 'Rules of Procedure for the General Conference'; 'Liste des documents'. Compiled by Needham.

D.42 Miscellaneous papers for the General Conference. General conference papers. Duplicated typescript, with some manuscript notes by Needham. 8 folders.

D.43-D.54 Second Session of the General Conference, Mexico City, November 1947. General for 1948 (at D.54).

D.43, D.44 'Memorandum on the Grants-in-aid allocated by UNESCO to international scientific organisations in 1947'. Contents of Needham's folder so labelled. 2 folders. of science: Asia's indispensable contribution.

D.45, D.46 Other general conference papers, principally concerning matters of scientific interest. 2 folders. Versions of this lecture were published in *Asian Heritage, Its Present and Future* (Archives Internationales d'Histoire des Sciences, April 1948) and in *Asian Heritage* (for the BBC radio Third Programme (see G.122) and a lecture to the Royal Central Asian Society (see G.74).

D.47, D.48 Papers for Working Party L: Natural Sciences. 2 folders. additions.

D.49 Press releases. (in French).

D.50-D.54 'Unesco 2nd General Conf. Mexico City misc papers'. Contents of Needham's envelope so inscribed divided into five for ease of reference: miscellaneous memorabilia from the conference and Mexico City, including press-cuttings from Mexican newspapers. At D.50 is cutting from *Mexico City Herald*, 19 November, profiling Needham.

United Nations Educational, Scientific and Cultural Organization

General Conference

The General Conference was the first forum and governing body of UNESCO. At its annual meeting the Executive of UNESCO was elected by the delegates.

First General Conference, Paris, 12 November - 10 December 1945

D-43-D-42

Guides de la première Conférence générale de l'UNESCO.
(Programme and organization folder)

D-43

Rules of Procedure for the General Conference; Liste des documents

D-41

Miscellaneous papers for the General Conference

D-42

Second Session of the General Conference, Mexico City, November 1947

D-43-D-54

Memorandum on the Grants-in-aid allocated by UNESCO to international scientific organizations in 1947. Contents of Neff's folder so labelled.
2 folders

D-43, D-44

Other general conference papers, principally concerning matters of scientific interest. 2 folders

D-46, D-48

Papers for Working Party I: Natural Sciences. 2 folders

D-47, D-48

Press releases

D-49

UNESCO 2nd General Conf., Mexico City misc papers. Contents of Neff's envelope so inscribed divided into five for ease of reference: miscellaneous memoranda from the conference and Mexico City, including press-cuttings from Mexican newspapers. At D-50 is cutting from Mexico City Herald, 19 November, profiling Neff.

D-50-D-54

United Nations Educational, Scientific and Cultural Organisation

- D.55-D.97 Third Session of the General Conference, Beirut, 17 November - 11 December 1948.
The material is principally duplicated typescript papers. They have been
Needham attended the conference in a dual official capacity - as Honorary
Scientific Adviser to UNESCO and as a member of the UK delegation.
Needham also acted as observer for the World Federation of Scientific
Workers (see K.330). At the conference he delivered a lecture on 'The unity
of science: Asia's indispensable contribution'.
Needham travelled home via Turkey where he visited colleagues in
universities in Ankara and Istanbul.
- D.55 Correspondence and papers *re* travel arrangements.
- D.56 D.78 Conference pass; 'Guide et Calendrier du mois de l'UNESCO', extensively
annotated by Needham.
The bulk of this material is papers for subcommittees of the Programme
and Budget Commission.
- D.57-D.64 General conference papers. Duplicated typescript, with some manuscript
notes by Needham. 8 folders.
Material includes budget estimates (at D.59) and report of the Director
General for 1948 (at D.64).
Reconstruction subcommittee.
- D.65-D.67 'The unity of science: Asia's indispensable contribution'.
Communication and Education subcommittees.
Versions of this lecture were published in *Asian Horizon*, (in French) in
Archives Internationales d'Histoire des Sciences, April 1949, and (in Arabic)
in the Arabic edition of the *Listener*, 19 July 1950. It also formed the basis
of two broadcasts for the BBC radio Third Programme (see G.122) and a
lecture to the Royal Central Asian Society (see G.74)
Needham was rapporteur for a Joint Meeting with the Natural Sciences
subcommittee on the Scientific and Cultural History of Standard Project.
- D.65 Typescript draft, with manuscript corrections and typescript additions.
- D.66 D.77 29pp typescript (in French).
The subcommittee held two meetings on 25 November and a third joint
meeting with the Cultural Questions subcommittee on 26 November (see
D.67). Includes
Needham's manuscript notes and typescript reports on meetings. 3 folders.
- D.67 Copy of Arabic version; correspondence *re* publication.
- D.78 Social Sciences and Exchange of Persons subcommittees.

United Nations Educational, Scientific and Cultural Organisation

- D.68-D.84 Papers of Conference General Committee and Commissions.
- The material is principally duplicated typescript papers. They have been arranged following the reference system adopted for the conference.
- D.68, D.69 Information. 2 folders.
- D.70 General Committee of the Conference. *reports for meetings of the delegation during and following the conference. 4 folders.*
- Committee on Constitution and Procedure. *covering a particular Commission, others to general subjects. At D.88 is the draft UK delegation report to the Minister of Education, with Needham's comments thereon.*
- D.71-D.78 Programme and Budget Commission.
- The bulk of this material is papers for subcommissions of the Programme and Budget Commission.
- D.71-D.92 General commission papers. *Journal for 17 November - 15 December. A complete sequence. 3 folders.*
- D.72 Reconstruction subcommission.
- Exchange of letters between Joseph and Dorothy Needham, November 1948. Joseph Needham's letter gives a full account of proceedings up to 27 November.*
- D.73 Communication and Education subcommissions.
- Post conference correspondence re account of proceedings.*
- D.74 Cultural Questions subcommission.
- Needham was rapporteur for a Joint Meeting with the Natural Sciences subcommission on the Scientific and Cultural History of Mankind Project. The folder includes Needham's manuscript notes taken at the meeting.
- D.75-D.77 Natural Sciences subcommission.
- Needham's manuscript notes from visits to Ankara and Istanbul, manuscript notes from visits to the typewritten Notes on a scientific visit to*
- The subcommission held two meetings on 23 November and a third joint meeting with the Cultural Questions subcommission on 26 November (see D.74 above). Needham was rapporteur at the meetings. Includes Needham's manuscript notes and typescript reports on meetings. 3 folders.
- Miscellaneous memorabilia. 2 folders.*
- D.78 Social Sciences and Exchange of Persons subcommissions.

United Nations Educational, Scientific and Cultural Organisation

- D.79-D.82 Official and External Relations Commission. 4 folders. September - 1 October 1949.
- D.83, D.84 Administrative Commission. 2 folders.
- D.85-D.88 UK delegation papers. Administrative Commission. 2 folders.
D.102, D.103 Duplicated typescript memoranda and papers for meetings of the delegation during and following the conference. 4 folders.
D.104 Official and External Relations Commission. 2 folders.
Some of the papers relate to matters concerning a particular Commission, others to general subjects. At D.88 is the draft UK delegation report to the Minister of Education, with Needham's comments thereon.
Administrative Commission.
- D.89 Press-releases.
D.106 Conference 'Journal' for 28 September; report of the UK delegation to the Minister for Education, Cmd. 7803, January 1950.
- D.90-D.92 Issues of the conference 'Journal' for 17 November - 11 December. A complete sequence. 3 folders.
D.109 Conference, Florence, 22 May - 17 June 1950.
Report of the UK delegation to the Minister for Education, Cmd. 8068, October 1950.
- D.93 Exchange of letters between Joseph and Dorothy Needham, November 1948. Joseph Needham's letter gives a full account of proceedings up to 27 November.
D.107-D.111 Sixth Session of the General Conference, Paris, 18 June - 11 July 1951.
- D.94, D.108 Post conference correspondence *re* account of proceedings.
D.109, D.110 After the conference Needham wrote accounts of its proceedings for a number of journals. He felt that it received insufficient coverage. Includes 9pp typescript draft of article for the *New Statesman* 'UNESCO in Phoenicia' (not published).
D.111 Official and External Relations Commission; report of the UK delegation to
- D.95 Correspondence *re* post conference visits to Ankara and Istanbul; manuscript notes from visits; 7pp typescript 'Notes on a scientific visit to Turkey', 28 December.
- D.96, D.97 Miscellaneous memorabilia. 2 folders.

United Nations Educational, Scientific and Cultural Organisation

- D.98-D.105 *Board* Fourth Session of the General Conference, Paris, 19 September - 1 October 1949.
- D.98, D.99 *Duplicated typewritten papers for information and meetings of the Executive Board*
General conference papers. 2 folders. 1947-1950.
- D.100, D.101 *Executive Board second session, April 1947*
Programme and Budget Commission. 2 folders.
- D.102, D.103 *Executive Board sixth session, January - February 1948. 3 folders.*
Official and External Relations Commission. 2 folders.
- D.104 *Executive Board seventh session, April 1948.*
Administrative Commission.
- D.105 *Programme Committee fourth session; Finance Committee Sixth Session.*
Conference 'Journal' for 28 September; report of the UK delegation to the Minister for Education, Cmnd. 7863, January 1950.
- D.106 *D.121* Fifth Session of the General Conference, Florence, 22 May - 17 June 1950
Report of the UK delegation to the Minister for Education, Cmnd. 8066, October 1950.
- D.107-D.111 *D.124* Sixth Session of the General Conference, Paris, 18 June - 11 July 1951.
Nominations Committee third session, July 1949.
- D.107, D.108 General conference papers. 2 folders.
- D.109, D.110 *D.125* Committee on Relationships with International Non-governmental Organisations third session, July 1949.
Programme and Budget Commission. 2 folders.
- D.111 *D.126, D.127* Executive Board fourteenth session, January - February 1949. 2 folders.
Official and External Relations Commission; report of the UK delegation to the Minister for Education, Cmnd. 8439, January 1952.
- D.128 *Committee for External Relations first session, February 1949.*
- D.129 *Executive Board fifteenth session, April 1949.*

United Nations Educational, Scientific and Cultural Organization

Fourth Session of the General Conference, Paris, 15 September - 7 October 1949.	D.107.D.102
General conference papers, 2 folders.	D.107.D.103
Programme and Budget Commission, 2 folders.	D.107.D.104
Official and External Relations Commission, 2 folders.	D.107.D.105
Administrative Commission.	D.107.D.106
Conference Journal for 28 September report of the UK delegation to the Minister for Education, Cmd. 7853, January 1950.	D.107.D.107
Fifth Session of the General Conference, Florence, 22 May - 17 June 1950.	D.107.D.108
Report of the UK delegation to the Minister for Education, Cmd. 8086, October 1950.	D.107.D.109
Sixth Session of the General Conference, Paris, 18 June - 11 July 1951.	D.107.D.110
General conference papers, 2 folders.	D.107.D.111
Programme and Budget Commission, 2 folders.	D.107.D.112
Official and External Relations Commission; report of the UK delegation to the Minister for Education, Cmd. 8439, January 1952.	D.107.D.113

United Nations Educational, Scientific and Cultural Organisation

Executive Board

- Committee for External Relations second session, May 1948; Executive Board sixteenth session, June 1949.
- Duplicated typescript papers for information and meetings of the Executive Board of UNESCO and its committees, 1947-1950.
- D.131, D.132 Executive Board seventeenth session, September - October 1949. 2 folders.
- D.112 Executive Board second session, April 1947.
- D.133-D.136 Executive Board nineteenth session, January - February 1950. 4 folders.
- D.113-D.115 Executive Board sixth session, January - February 1948. 3 folders.
At D.136 is exchange between Needham and J.S. Huxley on the Board paper dealing with relations with international non-governmental organisations.
- D.116 Executive Board seventh session, April 1948.
- D.137 Executive Board twentieth and twenty-third sessions, March, August 1950.
- D.117 Programme Committee fourth session; Finance Committee Sixth Session, April 1948.
- Correspondence
- D.118-D.121 Executive Board eighth session, June - July 1948. 4 folders.
Miscellaneous correspondence re general UNESCO business found in Needham's folders.
- D.122, D.123 Finance Committee eighth session, June - July 1948. 2 folders.
D.138-D.149 'Unesco current corresp.'. Contents of Needham's bulky folder as indexed divided into twelve for ease of reference: miscellaneous correspondence March 1948 - March 1949.
- D.124 Nominations Committee third session, July 1948.
At D.148 and D.149 are contents of folders found within the bulky folder.
- D.125 Committee on Relationships with International Non-governmental Organisations third session, July 1948.
- D.139 1948 April. Includes invitations to speak at international Congress on
- D.126, D.127 Executive Board fourteenth session, January - February 1949. 2 folders. 23-27 August and to attend Society for Visiting Scientists Symposium on Science at the UNESCO General Conference in Mexico; reports on Natural Sciences section meetings, 15, 24 and 30 April; personal letters from Lu
- D.128 Committee for External Relations first session, February 1949.
- D.129 Executive Board fifteenth session, April 1949. Progressive League meeting on UNESCO, Frensham Heights School, Farnham, Surrey, 15 August and to the Cambridge Philosophical Society, 9 June; reports on Natural Sciences section meetings 21 and 28 May; personal letters from Lu.

United Nations Educational, Scientific and Cultural Organization

Executive Board

Duplicate of report of the Board of UNESCO and its Committee, 1947-1950.

Executive Board second session, April 1947.

D.132

Executive Board fifth session, January - February 1948, 3 folders.

D.132-D.135

Executive Board seventh session, April 1948.

D.136

Programme Committee fourth session, Finance Committee fifth session, April 1948.

D.137

Executive Board eighth session, June - July 1948, 4 folders.

D.138-D.141

Finance Committee eighth session, June - July 1948, 2 folders.

D.142, D.143

Nominations Committee third session, July 1948.

D.144

Committee on Relations with International Non-governmental Organizations third session, July 1948.

D.145

Executive Board fourth session, January - February 1949, 2 folders.

D.146, D.147

Committee for External Relations first session, February 1949.

D.148

Executive Board fifth session, April 1949.

D.149

United Nations Educational, Scientific and Cultural Organisation

- D.130 Committee for External Relations second session, May 1949; Executive Board sixteenth session, June 1949. 21 June - 2 July (see J.209-J.218); personal letters from Lu.
- D.131, D.132 Executive Board seventeenth session, September - October 1949. 2 folders.
D.142
- D.133-D.136 Executive Board nineteenth session, January - February 1950. 4 folders.
D.143
At D.136 is exchange between Needham and J.S. Huxley on the Board paper dealing with relations with international non-governmental organisations.
- D.137 Executive Board twentieth and twenty-third sessions, March, August 1950.
- D.144
Correspondence
1948 September. Includes 'Activity Report' of UNESCO East Asia Field Scientific Cooperation Office, 1947-1948 which pays tribute to Needham's work; request for list of Chinese scientists who could be invited to Seventh Pacific Science Congress, New Zealand, February 1949, with Needham's Miscellaneous correspondence re general UNESCO business found in Needham's folders.
D.145
1948 September. Includes 'Activity Report' of UNESCO East Asia Field Scientific Cooperation Office, 1947-1948 which pays tribute to Needham's work; request for list of Chinese scientists who could be invited to Seventh Pacific Science Congress, New Zealand, February 1949, with Needham's Miscellaneous correspondence re general UNESCO business found in Needham's folders.
- D.138-D.149 'Unesco current corresp.'. Contents of Needham's bulky folder so inscribed divided into twelve for ease of reference: miscellaneous correspondence March 1948 - March 1949.
D.146
At D.148 and D.149 are contents of folders found within the bulky folder.
- D.138 1948 March.
D.146
1948 December.
- D.139 1948 January, March. Includes correspondence re informal meeting to 1948 April. Includes invitations to speak at International Congress on Population and World Resources in Relation to the Family, Cheltenham, 23-27 August and to attend Society for Visiting Scientists Symposium on Science at the UNESCO General Conference in Mexico; reports on Natural Sciences section meetings, 15, 24 and 30 April; personal letters from Lu Gwei-Djen reporting on situation within UNESCO.
D.146
1948 April. Includes invitations to speak at International Congress on Population and World Resources in Relation to the Family, Cheltenham, 23-27 August and to attend Society for Visiting Scientists Symposium on Science at the UNESCO General Conference in Mexico; reports on Natural Sciences section meetings, 15, 24 and 30 April; personal letters from Lu Gwei-Djen reporting on situation within UNESCO.
- D.140 1948 May. Includes invitation to speak at Progressive League meeting on UNESCO, Frensham Heights School, Farnham, Surrey, 15 August and to the Cambridge Philosophical Society, 3 June; reports on Natural Sciences section meetings 21 and 28 May; personal letters from Lu.

United Nations Educational, Scientific and Cultural Organization

D.130	Committee for External Relations second session, May 1948; Executive Board eleventh session, June 1948
D.131, D.132	Executive Board eleventh session, September - October 1948, 2 folders
D.132-D.138	Executive Board eleventh session, January - February 1950, 4 folders
	At D.138 is exchange between Neill and J.S. Huxley on the Board paper dealing with relations with international non-governmental organizations
D.137	Executive Board twelfth and twenty-third sessions, March, August 1950
Correspondence	
	Miscellaneous correspondence in general UNESCO business found in Neill's folders
D.138-D.143	Finance current corresp.: Contents of Neill's bulky folder so indexed divided into twelve for ease of reference; miscellaneous correspondence March 1948 - March 1948
	At D.143 and D.148 are contents of folders found within the bulky folder
D.139	1948 March
D.139	1948 April. Includes invitation to speak at International Congress on Population and World Resources in Hailton to the Family Conference, 23-27 August and to attend Society for Vetting Scientists Symposium on Natural Science at the UNESCO General Conference in Mexico; reports on Natural Science section meetings, 18, 24 and 30 April; personal letters from J.S. Huxley reporting on situation within UNESCO
D.140	1948 May. Includes invitation to speak at Progressive League meeting on UNESCO, Farnham Heights School, Farnham, Surrey, 18 August and to the Cambridge Philosophical Society, 3 June; reports on Natural Science section meetings 21 and 28 May; personal letters from J.S.

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- D.141 1948 June. Includes correspondence *re* Working Parties for Royal Society Scientific Information Conference, 21 June - 2 July (see J.209-J.218); personal letters from Lu.
- D.142 1948 July. Includes letter to *The Times* (marked 'Not for publication') *re* 'Records of research', arising from a proposal of J.D. Bernal for the rationalisation of scientific publications; letter to Sir John Maud *re* UK policy towards and problems within UNESCO.
- D.143 1948 August. Includes correspondence and papers *re* Progressive League meeting and International Congress on Population and World Resources; invitation to participate in BBC Overseas Service radio discussion on 'Science across the Frontiers' during British Association meeting in September.
- D.144 1948 September. Includes 'Activity Report' of UNESCO East Asia Field Scientific Cooperation Office, 1947-1948 which pays tribute to Needham's work; request for list of Chinese scientists who could be invited to Seventh Pacific Science congress, New Zealand, February 1949, with Needham's reply; incomplete typescript notes of 'Science across the Frontiers' BBC radio broadcast, with Needham's jottings; letter to Sir Stafford Cripps, Chancellor of the Exchequer, *re* the Director-Generalship of UNESCO.
- D.145 1948 October, November.
- D.146 1948 December.
- D.147 1949 January, March. Includes correspondence *re* informal meeting to discuss the East African Groundnut and Sorghum schemes, 20 January; letters to Sir John Maud *re* personnel situation in UNESCO.
- D.148 'Lebanon Exhibn'. Contents of Needham's folder so inscribed: correspondence and papers *re* transport to the UNESCO General Conference in Beirut of the Atomic Scientists' Association travelling Atomic Energy Exhibition, April - November 1948.

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- D.141 1948 June. Includes correspondence re Working Parties for Royal Society Scientific Information Committee. 21 June - 2 July (nos 1207-1218). Personal letters from J.U.
- D.142 1948 July. Includes letter to The Times (quoted 1948 for publication) re Records of research, arising from a proposal of J.D. Needham for the introduction of scientific education into the Joint Mandate in UK policy towards and relations with UNESCO.
- D.143 1948 August. Includes correspondence and papers re Progressive League meeting and International Congress on Population and World Resources; invitation to participate in SSC Overseas Service radio discussion on Science across the Frontiers; during British Association meeting in September.
- D.144 1948 September. Includes 'Activity Report of UNESCO East Asia Field Scientific Cooperation Office, 1947-1948 which pays tribute to Needham's work request for list of Chinese scientists who could be invited to Seventh Pacific Science Congress, New Zealand, February 1949, with Needham's reply; incomplete typescript notes of Science across the Frontiers, SSC radio broadcast, with Needham's follow-up letter to Sir Stafford Cripps, Chancellor of the Exchequer, in the Director-Generalship of UNESCO.
- D.145 1948 October, November.
- D.146 1948 December.
- D.147 1949 January, March. Includes correspondence re informal meeting to discuss the East African Groundnut and Sorghum schemes, 20 January; letters to Sir John Maud re personal situation in UNESCO.
- D.148 1949 February, April - November 1949. Contents of Needham's folder as included: correspondence and papers re transport to the UNESCO General Conference in Beirut of the Atomic Scientists' Association travelling Atomic Energy Exhibition, April - November 1949.

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- D.149 'after 2 years in UNESCO'. Contents of Needham's folder so inscribed: manuscript notes *re* problems and tensions within UNESCO. Cooperation Office in mainland China, September 1949 - October 1950.
- D.150-D.158 Contents of Needham's folder divided into nine for ease of reference: miscellaneous correspondence and papers *re* UNESCO business, 1948-1955.
- D.150 1948.
- D.151 1949 January, February. Includes invitation to speak at discussion meeting of Society for Visiting Scientists, 15 February (accepted); and Needham's typescript account of House of Lords debate on UNESCO.
- D.152 1949 March. Includes exchange with Sir Stafford Cripps *re* Truman Program aid to undeveloped regions.
- D.153 1949 April - July. Includes invitation to speak on UNESCO at British Association meeting in September.
- D.154 1949 September - December. Includes information *re* project for an international museum of civilisation, which Needham supported.
- D.155 1950 January - June. Includes correspondence *re* UNESCO 'Statement on Race'; Activity Report of UNESCO East Asia Science Cooperation Office, March - December 1949.
- D.156 1950 July - October. Includes papers *re* UNESCO 'Statement on Race', July; paper by A. Leveille on 'An international museum of civilisation'.
- D.157 1951. Includes correspondence *re* revision of 'Statement on Race'.
- D.158 1952-55, nd.

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D.156	after 2 years in UNESCO. Contents of Neelam's folder as included in manuscript notes regarding and sections within UNESCO.
D.155-D.156	Contents of Neelam's folder divided into nine for ease of reference: miscellaneous correspondence and papers re UNESCO business, 1945-1952.
D.155	1945.
D.154	1945 January-February. Includes evidence to speak at discussion meeting of Society for United Nations, 15 February (London); and Neelam's typewritten account of House of Lords debate on UNESCO.
D.153	1945 March. Includes exchange with Sir Stafford Cripps re Tuman Program and its unapproved regions.
D.152	1945 April - July. Includes invitation to speak on UNESCO at British Association meeting in September.
D.151	1945 September - December. Includes information re project for an international museum of civilization, which Neelam supported.
D.150	1950 January - June. Includes correspondence re UNESCO 'Statement on Race', Activity Report of UNESCO East Asia Science Cooperation Office, March - December 1948.
D.149	1950 July - October. Includes papers re UNESCO 'Statement on Race', paper by A. Javelle on 'An international museum of civilization'.
D.148	1950. Includes correspondence re revision of 'Statement on Race'.
D.147	1950-52.

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- D.159 'China Mission'. Contents of Needham's folder so inscribed: correspondence *re* possible establishment of Field Science Cooperation Office in mainland China, September 1949 - October 1950.

The inspiration for the Field Science Cooperation Office was Needham's work with the Sino-British Science Cooperation Office during the Second World War. The political situation in China in the period covered by this material presented considerable difficulties in establishing a field office there.

D.156, D.157

- D.160 'ACTH'. Contents of Needham's folder so inscribed: correspondence and papers *re* patenting of drug ACTH, 1950.

There was discussion as to whether an international body might be established to hold patents in new drugs to prevent one company or country acquiring a monopoly.

D.166

Meeting of the Co-operating Body, 12 January.

Scientific and Cultural History of Mankind

D.167

Meeting of the Special Committee, 13 March

From the outset UNESCO had among its tasks the study of worldwide cultural and scientific history. A committee was established, with Needham as a member, to formulate proposals. These were submitted to the UNESCO General Conference at Beirut in 1948. The project was approved and a drafting 'Committee of Experts' established to prepare the plan for the project. Needham was a member. It met to draw up a report, 12-17 December 1949.

D.168

D.169

At the fifth session of the General Conference in Florence 1950, an International Commission was set up to prepare and oversee the project. Needham was a Corresponding Member of this Commission.

D.161

A small committee was established, with Needham as a member, in 1948. Includes 'Notes on the scientific and cultural history of mankind' by J.S. Huxley, May; papers *re* approval of project at the General Conference.

D.170

D.162

1949 October - December. Correspondence and papers *re* meeting of the 1949 August. 'Rapport sur l'histoire scientifique et culturelle de l'humanité' by M.O. de Almeida, 35pp duplicated typescript.

D.163

1949 December (1). Papers from meeting of drafting committee. Includes Needham's manuscript notes on proceedings and typescript plan of the project taken from Needham's notes, with manuscript annotation by Huxley.

D.164

1949 December (2). Correspondence arising.

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- D.155 China Mission. Contents of Neelam's letter to Neelam's
correspondence in Paris, 1948-1949. Office in India, 1948-1949.
- The inspiration for the First Science Conference Office was Neelam's
work with the 25th-26th Science Conference Office during the Second
World War. The project started in China in the period covered by the
material presented contained difficulties in establishing a field office there.
- D.156 ACTH. Contents of Neelam's letter to Neelam, correspondence and
papers in possession of ACTH, 1948.
- There was discussion as to whether an international body might be
established to look into the new drugs to prevent use of country or country
acquiring a monopoly.
- Scientific and Cultural History of Mankind
- From the outset UNESCO had among its tasks the study of worldwide
cultural and scientific history. A committee was established with Neelam
as a member to formulate proposals. These were submitted to the
UNESCO General Conference at Beirut in 1948. The project was approved
and a drafting 'Committee of Experts' established to prepare the plan for the
project. Neelam was a member. It met to draw up a report, 12-17
December 1948.
- At the fifth session of the General Conference in Paris, 1950, an
International Commission was set up to prepare and oversee the project.
Neelam was a Corresponding Member of this Commission.
- D.157 1948. Includes notes on the scientific and cultural history of mankind, by
J.S. Huxley. May papers in approval of project at the General Conference.
- D.158 1948 August. 'Rapport sur l'histoire scientifique et culturelle de l'humanité'
by M.O. de Almeida. 32pp duplicated typescript.
- D.159 1948 December (1). Papers from meeting of drafting committee. Includes
Neelam's manuscript notes on proceedings and typescript plan of the
project taken from Neelam's notes, with manuscript annotation by Huxley.
- D.160 1949 December (2). Correspondence relating.

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- D.165 1950 January. Correspondence and papers *re* report of the Committee of Experts. Includes draft, Needham's and Huxley's comments and copy of final report.
- D.166, D.167 1950 January - March. Papers *re* UK response to report of the Committee of Experts. 2 folders.
- The report was considered at the meeting on 12 January 1950 of the National Co-operating Body for Philosophy and Humanistic Studies of the UK National Commission for UNESCO. It established, jointly with the British Committee on Cooperation with UNESCO in the Natural Sciences, a Special Committee on the Unesco Project for a Scientific and Cultural History of Mankind to prepare the UK response to the report of the Committee of Experts. It met on 13 March (see D.349).
- D.166 Meeting of the Co-operating Body, 12 January.
- D.167 Meeting of the Special Committee, 13 March.
- D.168 1950 February - May. Includes 'the final form of the "Report on the project for a scientific and cultural history of mankind" as it is presented to the 5th session of the Unesco General Conference', sent to Needham 24 May.
- D.169 1950 July - September. Correspondence and papers *re* membership of the International Commission.
- A small committee was established, with Needham as a member, to consider nominations for the Commission. It met on 14 October.
- D.170 1950 October - December. Correspondence and papers *re* meeting of the committee to consider the membership of the International Commission, and first meeting of Commission.
- D.171 1951 January - April. Includes report from first meeting of the Commission, and invitation to Needham to become a Corresponding Member of the Commission (accepted).
- "National Commissioners Newsletter", nos. 6-8, 1949.

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- D.166 1950 January. Correspondence and papers in regard to the Committee of Experts. Includes draft, Neeson and Neeson's comments and copy of final report.
- D.166, D.167 1950 January - March. Report to UK response to report of the Committee of Experts. 2 folders.
- The report was considered at the meeting on 12 January 1950 of the National Co-ordinating Body for Geography and Humanistic Studies of the UK National Commission for UNESCO. It established, jointly with the British Commission on Co-operation with UNESCO in the Natural Sciences, a Special Committee on the United Kingdom for a Scientific and Cultural History of Mankind to prepare the UK response to the report of the Committee of Experts. It met on 12 March (see D.168).
- D.168 Meeting of the Co-ordinating Body, 12 January.
- D.169 Meeting of the Special Committee, 13 March.
- 1950 February - May. Includes the first form of the 'Report on the project for a scientific and cultural history of mankind' as it is presented to the 5th session of the UNESCO General Conference, sent to Neeson 24 May.
- D.169 1950 July - September. Correspondence and papers in membership of the International Commission.
- A small committee was established, with Neeson as a member, to consider nominations for the Commission. It met on 14 October.
- D.170 1950 October - December. Correspondence and papers in regard to the committee to consider the membership of the International Commission, and first meeting of Commission.
- D.171 1951 January - April. Includes report from first meeting of the Commission, and invitation to Neeson to become a Corresponding Member of the Commission (accepted).

J. Neeson
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- D.172 1951 May - November. Includes first annual report of the Chairman of the Commission.
- D.173 1952 January, February. Principally Commission papers.
- D.174 1952 March - October. Commission papers. Includes News Bulletins I and II on the progress of the project.
- D.175 1953-1955. Chiefly *re* visit to Cambridge by Professor L. Petech to discuss Needham's work on the history of science in China for use in the project.
- D.176 1962, 1963. Chiefly *re* publication of the first volume of the Scientific and Cultural History of Mankind; *Prehistory and the Beginnings of Civilisation* by J. Hawkes and L. Woolley.

Information and publicity literature

- D.177-D.180 Press-releases and news-sheets
- D.181-D.186 Printed material
- Miscellaneous**
- Press-releases and news-sheets**
- D.177, D.188 UNESCO Newsletter no. 47, December 1947; press-releases 1949-1952 (not a complete sequence) and nd.
- D.178 'UNESCO World Review', nos. 1, 4 and 6, 1949.
- D.179 'News from UNESCO' bulletins, May 1949.
- D.180 'National Commissions Newsletter', nos. 6-8, 1949.

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1957 May - November. Includes the annual report of the Chairman of the Commission.	D.173
1955 January, February. Primary Commission papers.	D.172
1955 March - October. Commission papers. Includes News Bulletin 1 and II on the progress of the project.	D.174
1953-1955. Chiefly in view of Cambridge by Professor J. P. F. to discuss Newton's work on the history of science in China for use in the project.	D.175
1955, 1956. Chiefly in publication of the first volume of the Scientific and Cultural History of World, History and the Beginnings of Civilization by J. H. and J. W. W.	D.176
Information and publicity literature.	D.177-D.180
Press releases and news sheets.	D.181-D.186
Printed material.	D.187-D.190
Press releases and news sheets.	D.191-D.194
UNESCO Newsletter no. 47, December 1947; press releases 1948-1952 (not a complete sequence) and no. 48, January 1953.	D.195
'UNESCO World Review', nos. 1, 4 and 8, 1948.	D.196
News from UNESCO Bulletin, May 1948.	D.197
National Commission Newsletter, nos. 5-8, 1948.	D.198

United Nations Educational, Scientific and Cultural Organisation

D.181-D.193

Printed material

D.181

Act of establishment of UNESCO, 1945; Constitution, 1945; 'UNESCO Its purpose and its philosophy' by J.S. Huxley, 1946.

D.184, D.185

D.182

'La France et l'U.N.E.S.C.O.', 1946; brochure of 'Exposition scientifique internationale', 1946.

D.187

D.183

'"The defenses of peace" Documents relating to UNESCO', 1946; 'Introduction to Unesco', 1947.

D.186

D.184

List of names and addresses of experts. Includes 78pp typescript list of contacts in subjects from 'Agricultural chemistry' to 'Zoology'.

Report of Director General for 1947; programme of activities for 1948.

D.189

D.185

Duplicated typescript sheets on aspects of evolution. Nil. In French. Articles re UNESCO. Includes 'Science in UNESCO' by B.J. Bok, *Scientific Monthly* 63 (1946); United Nations Educational, Scientific and Cultural Organization', *Science and Culture* 12 (1946-47); and typescript extracts from articles about UNESCO sent to the editor of *Nature* by Needham, 1951.

D.186

Miscellaneous printed material and press-cuttings.

Miscellaneous

D.187, D.188

Lists of UNESCO documents, February 1947 - February 1948. 2 folders.

D.189-D.197

Miscellaneous UNESCO papers, 1947-1954.

D.189, D.190

1947. 2 folders.

Includes at D.190 September 1947 issue of 'Mercury', UNESCO staff newsletter, annotated 'Lu Gwei-Djen' and recording her arrival at UNESCO in Paris to advise on establishment of Far East Field Science Cooperation Office.

United Nations Educational, Scientific and Cultural Organization

Printed material		
Act of establishment of UNESCO, 1945; Constitution, 1945; UNESCO as purpose and its philosophy by J.B. Huxley, 1945.	D.187	
La France et l'UNESCO, 1946; brochure of Scientific Scientific International, 1946.	D.188	
"The balance of power: Documents relating to UNESCO, 1946. Introduction to UNESCO, 1947.	D.189	
Report of General Assembly for 1947; programme of activities for 1948.	D.190	
Articles in UNESCO, includes 'Science in UNESCO' by B.J. Bok, Scientific Monthly 25 (1946); United Nations Educational, Scientific and Cultural Organization, Science and Culture 12 (1946-47); and typewritten extracts from articles about UNESCO sent to the editor of Nature by Neelham, 1951.	D.191	
Miscellaneous printed material and press cuttings.	D.192	
Miscellaneous		
List of UNESCO documents, February 1947 - February 1948. 2 folders.	D.193, D.194	
Miscellaneous UNESCO papers, 1947-1954.	D.195-D.197	
1947. 2 folders.	D.198, D.199	
includes at D.199 September 1947 issue of Mercury, UNESCO staff newsletter, annotated by Gweh-Jen, and recording her arrival at UNESCO in Paris to advise on establishment of Far East Field Science Cooperation Office.		

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- D.191-D.193 1948. 3 folders.
- D.194, D.195 1949. 2 folders.
- D.201-D.204 Duplicated typescript memoranda and papers for the Preparatory Commission Natural Science Committee, 1948. 4 folders.
- D.196 1950, 1951.
The Preparatory Commission Natural Sciences Committee drew up the functions and role of the Natural Sciences Section.
- D.197 1953, 1954.
- D.205-D.209 'Sci & Unesco'. Contents of Needham's folder as inscribed divided into five for ease of reference: material by Preparatory Commission booklet 'Science
- D.198 Lists of names and addresses of experts. Includes 78pp typescript list of contacts in subjects from 'Agricultural chemistry' to 'Zoology'.
The booklet was drafted by Needham.
- D.199 Duplicated typescript sheets on aspects of evolution. Nd. In French.
D.205-D.207 Typescript rough draft, 3 folders.
- D.200 Correspondence and papers *re* expenses, 1947-1948.
D.208 Proof copy with typescript additions.

NATURAL SCIENCES SECTION

- D.201-D.237 General papers
- D.210 D.238-D.257 Committees of Natural Sciences Section covering May 1948 - April 1949.
- D.258-D.267 International Institute for the Hylean Amazon
- D.211 Natural Sciences Section Filing Handbook, 17 November 1947. Annotated by
D.268, D.269 International Institute for Arid Zones
- D.212 D.270-D.300 Support for international science
Natural Sciences Section Filing Handbook, 19 February 1948. Annotated by
Needham.
- D.301-D.316 National Research Council Committee on UNESCO

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D.197-D.198	1948, 2 folders
D.194-D.195	1948, 2 folders
D.194	1950, 1951
D.197	1952, 1954
D.198	List of names and addresses of experts. Includes typescript list of contacts in subjects from 'Agriculture' to 'Zoology'.
D.199	Duplicated typescript sheets on aspects of evolution. Vol. in French.
D.200	Correspondence and papers in expense, 1947-1948.

NATURAL SCIENCES SECTION

D.201-D.237	General papers
D.238-D.257	Committees
D.258-D.267	International Institute for the Hyacinth Amazon
D.268, D.269	International Institute for Aids Zones
D.270-D.300	Support for international science
D.301-D.316	National Research Council Committee on UNESCO

United Nations Educational, Scientific and Cultural Organisation

General papers

Duplicated typescript memoranda and papers, November 1946 - September 1951. 16 folders.

Preparatory Commission Natural Science Committee ordered sequence of general Natural Science Section papers. This arrangement is followed in the organisation of the material, which is not necessarily in a strict

D.201-D.204

Duplicated typescript memoranda and papers for the Preparatory Commission Natural Science Committee, 1946. 4 folders.

D.229-D.231

The Preparatory Commission Natural Sciences Committee drew up the functions and role of the Natural Sciences Section.

D.205-D.209

No. 1 'Scientific research and scientific institutes in India'; no. 3 'Sci & Unesco'. Contents of Needham's folder so inscribed divided into five for ease of reference: material *re* Preparatory Commission booklet 'Science and UNESCO' defining the 'Tasks and Functions of the Secretariat's Division of Natural Sciences'.

D.230

The booklet was drafted by Needham. Africa; no. 6 'L'activité scientifique dans les Pays-Sas'; no. 7 'La mission du Conseil National des Recherches de Tchecoslovaquie' and 'Chemical science in Czechoslovakia'.

D.205-D.207

Typescript rough draft. 3 folders.

D.231

D.208

No. 8 'The conditions of science in Egypt'; no. 10 'Les recherches [Poland]'; no. 16 'Organization of scientific research in France'.

D.209

D.232-D.237

Copy of booklet. 'UNESCO booklet'. Contents of Needham's folder so inscribed divided into six for ease of reference: correspondence and papers *re* editing by Needham of 'Science Unesco', a booklet drafted by Lu Hsiang-Shan describing the work of **Natural Sciences Section** on Offices of UNESCO.

D.210

'Bibliography of Official Documents of Natural Sciences Section' covering May 1946 - April 1948.

D.211

'Natural Sciences Section Filing Handlist, 17 November 1947. Annotated by Needham. manuscript notes.

D.212

'Natural Sciences Section Filing Handlist, 19 February 1948. Annotated by Needham.

D.235

Typescript drafts of appendices.

United Nations Educational, Scientific and Cultural Organization

General papers	
D.201-D.204	<p>Preparatory Commission Natural Science Committee</p> <p>Duplicated typescript manuscripts and papers for the Preparatory Commission Natural Science Committee, 1946. 4 folders</p> <p>The Preparatory Commission Natural Science Committee drew up the functions and role of the Natural Science Section.</p>
D.202-D.209	<p>Jed A. Larson. Contents of manuscript folder so included divided into five for ease of reference: materials as Preparatory Commission booklet 'Science and UNESCO' during the Table and Functions of the Secretary's Division of Natural Science.</p> <p>The booklet was drafted by Hiedman.</p>
D.205-D.207	Typescript rough draft, 3 folders.
D.208	Proof copy with typescript additions.
D.209	Copy of booklet.
D.210	<p>Bibliography of Official Documents of Natural Science Section, covering May 1946 - April 1948.</p>
D.211	<p>Natural Science Section Final Handlist, 17 November 1947. Annotated by Hiedman.</p>
D.212	<p>Natural Science Section Final Handlist, 19 February 1948. Annotated by Hiedman.</p>

United Nations Educational, Scientific and Cultural Organisation

- D.213-D.228 Duplicated typescript memoranda and papers, November 1946 - September 1951. 16 folders.
- D.237 The great bulk of these papers form a consecutively numbered sequence of general Natural Science Section papers. This arrangement is followed in the organisation of the material, which is not necessarily in a strict chronological sequence.
- Committees and conferences
- D.229-D.231 Natural Sciences 'Occasional Papers'.
Duplicated typescript papers for committees and other bodies of the Section of Natural Sciences and its conferences supported by the Section, and
- D.229 No. 1 'Scientific research and scientific institutes in India'; no. 3 'Contemporary development of the mathematical and physical sciences in Mexico'; no. 4 'The development of science in Brazil in recent years'.
D.228-D.242 Permanent Council for the Coordination of International Congresses of Medical Sciences
- D.230 No. 5 'Government science in South Africa'; no. 6 'L'activite scientifique dans les Pays-Bas'; no. 7 'La mission du Conseil National des Recherches de Tchecoslovaquie' and 'Chemical science in Czechoslovakia'.
D.245-D.248 Committee on the Popularisation of Science and its
- D.231 No. 8 'The conditions of science in Egypt'; no. 10 'Les recherches biologiques en Hongrie 1946-47'; no. 11 'Institute for the Science of Science [Poland]'; no. 16 'Organization of scientific research in France'.
D.240, D.250 Committee on Scientific Abstracting
- D.232-D.237 'FSCO booklet'. Contents of Needham's folder so inscribed divided into six for ease of reference: correspondence and papers *re* editing by Needham of 'Science Liaison', a booklet drafted by Lu Gwei-Djen describing the work of the Field Science Cooperation Offices of UNESCO.
D.252, D.253 International Conference on High Altitude Research Stations
- D.232 Contract with UNESCO to edit the booklet; correspondence with Lu and C.H. Dobinson; etc.
D.254 Latin American Conference of Scientific Experts
- D.233 Draft preface by Needham, 2pp typescript; list of captions; text for cover of booklet; manuscript notes.
- D.234 Typescript draft by Lu, 24pp + list of FSCOs.
D.256, D.257 Committee for Engineering Sciences
- D.235 Typescript drafts of appendices.

United Nations Educational, Scientific and Cultural Organisation

D.236 D.242 Proof copy. Council for the Coordination of International Congresses of Medical Sciences. 1947-1950. 5 folders.

D.237 The Council was formed by the Medical Sciences Subsection in the Health Organization. An organising committee was formed and first met in April 1948. The Council held its inaugural assembly in April 1949.

Committees and conferences

D.243, D.244 Committee for Conservation and Utilisation of Resources. 1948. 2 folders.
Duplicated typescript papers for committees and other bodies of the Section of Natural Sciences, and re conferences supported by the Section, not circulated as general Section papers.

D.245-D.248 D.238-D.242 Permanent Council for the Coordination of International Congresses of Medical Sciences. 1948-1949. 4 folders.

D.243, D.244 Needham chaired this Committee in 1948.

D.243, D.244 Committee for Conservation and Utilisation of Resources

D.248, D.250 Committee on Scientific Abstracting. 1948-1950. 2 folders.
D.245-D.248 Committee on the Popularisation of Science and its Social Implications

D.251 Interim Coordinating Committee on Medical and Biological Abstracting.
D.249, D.250 Committee on Scientific Abstracting

D.251 Interim Coordinating Committee on Medical and Biological Abstracting
D.252, D.253 International Conference on High Altitude Research Stations. 1948. 2 folders.

D.252, D.253 International Conference on High Altitude Research Stations

D.254 Latin American Conference of Scientific Experts. 1948.

D.254 Latin American Conference of Scientific Experts

D.255 Group Discussions on the Social Implications of Science. 1948.
D.255 Group Discussions on the Social Implications of Science

D.256, D.257 Committee for Engineering Sciences. 1948-1950. 2 folders.
D.256, D.257 Committee for Engineering Sciences

United Nations Educational, Scientific and Cultural Organization

D.236	Printed copy of book	
D.237	Printed copy of book	
Committees and conferences		
D.238-D.242	International Congress of Medical Sciences	
D.243-D.244	Committee for Conservation and Utilization of Resources	
D.245-D.248	Committee on the Population of Science and its Social Implications	
D.249-D.250	Committee on Scientific Abstracting	
D.251	Interim Coordinating Committee on Medical and Biological Abstracting	
D.252, D.253	International Conference on High Altitude Research Stations	
D.254	Latin American Conference of Scientific Experts	
D.255	Group Discussions on the Social Implications of Science	
D.256, D.257	Committee for Engineering Sciences	

D.236

D.242

D.24

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United Nations Educational, Scientific and Cultural Organisation

D.238-D.242 Permanent Council for the Coordination of International Congresses of Medical Sciences. 1947-1950. 5 folders.

The Council was formed by the Medical Sciences Subsection in collaboration with the World Health Organisation. An organising committee was formed and first met in April 1948. The Council held its inaugural assembly in April 1949.

D.243, D.244 Committee for Conservation and Utilisation of Resources. 1948. 2 folders.

At D.244 is the final report by J.G. Crowther. March 1948.

D.245-D.248 Committee on the Popularisation of Science and its Social Implications. 1948-1949. 4 folders.

Needham chaired this Committee in 1948.

D.249, D.250 Committee on Scientific Abstracting. 1948-1950. 2 folders.

D.251 Interim Coordinating Committee on Medical and Biological Abstracting. 1948, 1950.

D.252, D.253 International Conference on High Altitude Research Stations. 1948. 2 folders.

D.254 Latin American Conference of Scientific Experts. 1948.

D.255 Group Discussions on the Social Implications of Science. 1949.

D.256, D.257 Committee for Engineering Sciences. 1949-1950. 2 folders.

United Nations Educational, Scientific and Cultural Organization

Permanent Council for the Coordination of International Congresses of
Medical Sciences, 1947-1950, 2 folders.

D.232, D.243

The Council was formed by the Medical Sciences Division in
collaboration with the World Health Organization. An organizing committee
was formed and met in April 1948. The Council held its inaugural
assembly in April 1948.

Committee for Conservation and Utilization of Resources, 1948, 2 folders.
At D.244 is the final report by J.E. Crowther, March 1948.

D.242, D.244

Committee on the Population of Science and its Social Implications,
1948-1950, 4 folders.

D.245, D.248

Heardman chaired this Committee in 1948.

Committee on Scientific Abstracting, 1948-1950, 2 folders.

D.248, D.250

Interim Coordinating Committee on Medical and Biological Abstracting,
1948, 1950.

D.251

International Conference on High Altitude Research Stations, 1948, 2
folders.

D.252, D.253

Latin American Conference of Scientific Experts, 1948.

D.254

Group Discussions on the Social Implications of Science, 1948.

D.255

Committee for Engineering Sciences, 1948-1950, 2 folders.

D.256, D.257

United Nations Educational, Scientific and Cultural Organisation

International Institute for the Hylean Amazon (IIHA)

At the first session of the UNESCO General Conference in 1946 plans were laid for the establishment of a research institute to study the zoological, botanical, geological, anthropological, social and other aspects of the Amazon basin region. The Institute was formally established in May 1948 with the setting up of an interim commission. E.J.H. Corner was the Executive Secretary.

D.258

'Note on the Proposed International Institute of Hylea', 10 December 1946; 'Report on the Conference for the Establishment of the International Institute of the Hylean Amazon, held at Iquitos, Peru, on the 30th April - 10th May, 1948'.

D.270-D.279

Chiefly duplicated typescript papers.

D.259-D.261

Duplicated typescript papers of Natural Sciences Section dealing with the Institute, 1948. Chiefly papers from the establishing conference and interim commission. 3 folders.

D.270-D.272

D.273-D.277

D.262-D.267

ICSU Monthly Bulletin 1-32, September 1947 - May 1951. Not a complete 'IIHA'. Contents of Needham's folder so inscribed divided into six for ease of reference: duplicated typescript papers of interim commission; brief correspondence. At D.266 is draft programme of the Institute as prepared by the interim commission.

D.273

Correspondence re questionnaire on international science cooperation for peace, circulated by ICSU's Committee on Science and Its Social Relations, 1948.

International Institute of the Arid Zone (IIAZ)

D.279-D.280

Reports from the International Council of Scientific Unions and the General Conference in 1948. After consideration of the proposals during 1949, an interim commission was established in 1950 and the IIAZ began work in 1951.

D.280

D.268

International Association of Microbiologists.

Papers on the proposed IIAZ, 1949.

Papers 1949, 1951.

D.269

Report of first meeting of IIAZ advisory committee, April 1951; offprint from *Nature*, 5 January 1952, describing the work of the Institute.

Memoirandum from J.E. Huxley, 1949.

International committee on anatomical nomenclature.

Letter re possible formation of international committee, 1950.

United Nations Educational, Scientific and Cultural Organization

International Institute for the Hygiene of Man (IHM)

At the first session of the UNESCO General Conference in 1945 plans were laid for the establishment of a research institute to study the zoological, botanical, geological, anthropological, social and other aspects of the Amazon basin region. The institute was formally established in May 1948 with the setting up of an interim commission. E.J.H. Corner was the Executive Secretary.

Notes on the Proposed International Institute of Hygiene, 10 December 1946; Report on the Conference for the Establishment of the International Institute of the Hygiene of Man, held at Igoué, Paris, on the 30th April - 10th May, 1948.

Excluded typewritten papers of Natural Sciences Section dealing with the Institute, 1948. Chiefly papers from the establishing conference and interim commission. 3 folders.

IHM. Contents of Neesham's folder so included divided into six for ease of reference: duplicated typewritten papers of interim commission; that correspondence. At D.268 is draft programme of the institute as prepared by the interim commission.

International Institute of the And Zone (IAZ)

The establishment of the IAZ was proposed at the third session of the General Conference in 1948. After consideration of the proposals during 1948, an interim commission was established in 1950 and the IAZ began work in 1951.

Papers on the proposed IAZ, 1948; 1949; 1950; 1951; 1952; 1953; 1954; 1955; 1956; 1957; 1958; 1959; 1960; 1961; 1962; 1963; 1964; 1965; 1966; 1967; 1968; 1969; 1970; 1971; 1972; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986; 1987; 1988; 1989; 1990; 1991; 1992; 1993; 1994; 1995; 1996; 1997; 1998; 1999; 2000; 2001; 2002; 2003; 2004; 2005; 2006; 2007; 2008; 2009; 2010; 2011; 2012; 2013; 2014; 2015; 2016; 2017; 2018; 2019; 2020; 2021; 2022; 2023; 2024; 2025; 2026; 2027; 2028; 2029; 2030; 2031; 2032; 2033; 2034; 2035; 2036; 2037; 2038; 2039; 2040; 2041; 2042; 2043; 2044; 2045; 2046; 2047; 2048; 2049; 2050; 2051; 2052; 2053; 2054; 2055; 2056; 2057; 2058; 2059; 2060; 2061; 2062; 2063; 2064; 2065; 2066; 2067; 2068; 2069; 2070; 2071; 2072; 2073; 2074; 2075; 2076; 2077; 2078; 2079; 2080; 2081; 2082; 2083; 2084; 2085; 2086; 2087; 2088; 2089; 2090; 2091; 2092; 2093; 2094; 2095; 2096; 2097; 2098; 2099; 2100; 2101; 2102; 2103; 2104; 2105; 2106; 2107; 2108; 2109; 2110; 2111; 2112; 2113; 2114; 2115; 2116; 2117; 2118; 2119; 2120; 2121; 2122; 2123; 2124; 2125; 2126; 2127; 2128; 2129; 2130; 2131; 2132; 2133; 2134; 2135; 2136; 2137; 2138; 2139; 2140; 2141; 2142; 2143; 2144; 2145; 2146; 2147; 2148; 2149; 2150; 2151; 2152; 2153; 2154; 2155; 2156; 2157; 2158; 2159; 2160; 2161; 2162; 2163; 2164; 2165; 2166; 2167; 2168; 2169; 2170; 2171; 2172; 2173; 2174; 2175; 2176; 2177; 2178; 2179; 2180; 2181; 2182; 2183; 2184; 2185; 2186; 2187; 2188; 2189; 2190; 2191; 2192; 2193; 2194; 2195; 2196; 2197; 2198; 2199; 2200; 2201; 2202; 2203; 2204; 2205; 2206; 2207; 2208; 2209; 2210; 2211; 2212; 2213; 2214; 2215; 2216; 2217; 2218; 2219; 2220; 2221; 2222; 2223; 2224; 2225; 2226; 2227; 2228; 2229; 2230; 2231; 2232; 2233; 2234; 2235; 2236; 2237; 2238; 2239; 2240; 2241; 2242; 2243; 2244; 2245; 2246; 2247; 2248; 2249; 2250; 2251; 2252; 2253; 2254; 2255; 2256; 2257; 2258; 2259; 2260; 2261; 2262; 2263; 2264; 2265; 2266; 2267; 2268; 2269; 2270; 2271; 2272; 2273; 2274; 2275; 2276; 2277; 2278; 2279; 2280; 2281; 2282; 2283; 2284; 2285; 2286; 2287; 2288; 2289; 2290; 2291; 2292; 2293; 2294; 2295; 2296; 2297; 2298; 2299; 2300; 2301; 2302; 2303; 2304; 2305; 2306; 2307; 2308; 2309; 2310; 2311; 2312; 2313; 2314; 2315; 2316; 2317; 2318; 2319; 2320; 2321; 2322; 2323; 2324; 2325; 2326; 2327; 2328; 2329; 2330; 2331; 2332; 2333; 2334; 2335; 2336; 2337; 2338; 2339; 2340; 2341; 2342; 2343; 2344; 2345; 2346; 2347; 2348; 2349; 2350; 2351; 2352; 2353; 2354; 2355; 2356; 2357; 2358; 2359; 2360; 2361; 2362; 2363; 2364; 2365; 2366; 2367; 2368; 2369; 2370; 2371; 2372; 2373; 2374; 2375; 2376; 2377; 2378; 2379; 2380; 2381; 2382; 2383; 2384; 2385; 2386; 2387; 2388; 2389; 2390; 2391; 2392; 2393; 2394; 2395; 2396; 2397; 2398; 2399; 2400; 2401; 2402; 2403; 2404; 2405; 2406; 2407; 2408; 2409; 2410; 2411; 2412; 2413; 2414; 2415; 2416; 2417; 2418; 2419; 2420; 2421; 2422; 2423; 2424; 2425; 2426; 2427; 2428; 2429; 2430; 2431; 2432; 2433; 2434; 2435; 2436; 2437; 2438; 2439; 2440; 2441; 2442; 2443; 2444; 2445; 2446; 2447; 2448; 2449; 2450; 2451; 2452; 2453; 2454; 2455; 2456; 2457; 2458; 2459; 2460; 2461; 2462; 2463; 2464; 2465; 2466; 2467; 2468; 2469; 2470; 2471; 2472; 2473; 2474; 2475; 2476; 2477; 2478; 2479; 2480; 2481; 2482; 2483; 2484; 2485; 2486; 2487; 2488; 2489; 2490; 2491; 2492; 2493; 2494; 2495; 2496; 2497; 2498; 2499; 2500; 2501; 2502; 2503; 2504; 2505; 2506; 2507; 2508; 2509; 2510; 2511; 2512; 2513; 2514; 2515; 2516; 2517; 2518; 2519; 2520; 2521; 2522; 2523; 2524; 2525; 2526; 2527; 2528; 2529; 2530; 2531; 2532; 2533; 2534; 2535; 2536; 2537; 2538; 2539; 2540; 2541; 2542; 2543; 2544; 2545; 2546; 2547; 2548; 2549; 2550; 2551; 2552; 2553; 2554; 2555; 2556; 2557; 2558; 2559; 2560; 2561; 2562; 2563; 2564; 2565; 2566; 2567; 2568; 2569; 2570; 2571; 2572; 2573; 2574; 2575; 2576; 2577; 2578; 2579; 2580; 2581; 2582; 2583; 2584; 2585; 2586; 2587; 2588; 2589; 2590; 2591; 2592; 2593; 2594; 2595; 2596; 2597; 2598; 2599; 2600; 2601; 2602; 2603; 2604; 2605; 2606; 2607; 2608; 2609; 2610; 2611; 2612; 2613; 2614; 2615; 2616; 2617; 2618; 2619; 2620; 2621; 2622; 2623; 2624; 2625; 2626; 2627; 2628; 2629; 2630; 2631; 2632; 2633; 2634; 2635; 2636; 2637; 2638; 2639; 2640; 2641; 2642; 2643; 2644; 2645; 2646; 2647; 2648; 2649; 2650; 2651; 2652; 2653; 2654; 2655; 2656; 2657; 2658; 2659; 2660; 2661; 2662; 2663; 2664; 2665; 2666; 2667; 2668; 2669; 2670; 2671; 2672; 2673; 2674; 2675; 2676; 2677; 2678; 2679; 2680; 2681; 2682; 2683; 2684; 2685; 2686; 2687; 2688; 2689; 2690; 2691; 2692; 2693; 2694; 2695; 2696; 2697; 2698; 2699; 2700; 2701; 2702; 2703; 2704; 2705; 2706; 2707; 2708; 2709; 2710; 2711; 2712; 2713; 2714; 2715; 2716; 2717; 2718; 2719; 2720; 2721; 2722; 2723; 2724; 2725; 2726; 2727; 2728; 2729; 2730; 2731; 2732; 2733; 2734; 2735; 2736; 2737; 2738; 2739; 2740; 2741; 2742; 2743; 2744; 2745; 2746; 2747; 2748; 2749; 2750; 2751; 2752; 2753; 2754; 2755; 2756; 2757; 2758; 2759; 2760; 2761; 2762; 2763; 2764; 2765; 2766; 2767; 2768; 2769; 2770; 2771; 2772; 2773; 2774; 2775; 2776; 2777; 2778; 2779; 2780; 2781; 2782; 2783; 2784; 2785; 2786; 2787; 2788; 2789; 2790; 2791; 2792; 2793; 2794; 2795; 2796; 2797; 2798; 2799; 2800; 2801; 2802; 2803; 2804; 2805; 2806; 2807; 2808; 2809; 2810; 2811; 2812; 2813; 2814; 2815; 2816; 2817; 2818; 2819; 2820; 2821; 2822; 2823; 2824; 2825; 2826; 2827; 2828; 2829; 2830; 2831; 2832; 2833; 2834; 2835; 2836; 2837; 2838; 2839; 2840; 2841; 2842; 2843; 2844; 2845; 2846; 2847; 2848; 2849; 2850; 2851; 2852; 2853; 2854; 2855; 2856; 2857; 2858; 2859; 2860; 2861; 2862; 2863; 2864; 2865; 2866; 2867; 2868; 2869; 2870; 2871; 2872; 2873; 2874; 2875; 2876; 2877; 2878; 2879; 2880; 2881; 2882; 2883; 2884; 2885; 2886; 2887; 2888; 2889; 2890; 2891; 2892; 2893; 2894; 2895; 2896; 2897; 2898; 2899; 2900; 2901; 2902; 2903; 2904; 2905; 2906; 2907; 2908; 2909; 2910; 2911; 2912; 2913; 2914; 2915; 2916; 2917; 2918; 2919; 2920; 2921; 2922; 2923; 2924; 2925; 2926; 2927; 2928; 2929; 2930; 2931; 2932; 2933; 2934; 2935; 2936; 2937; 2938; 2939; 2940; 2941; 2942; 2943; 2944; 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3112; 3113; 3114; 3115; 3116; 3117; 3118; 3119; 3120; 3121; 3122; 3123; 3124; 3125; 3126; 3127; 3128; 3129; 3130; 3131; 3132; 3133; 3134; 3135; 3136; 3137; 3138; 3139; 3140; 3141; 3142; 3143; 3144; 3145; 3146; 3147; 3148; 3149; 3150; 3151; 3152; 3153; 3154; 3155; 3156; 3157; 3158; 3159; 3160; 3161; 3162; 3163; 3164; 3165; 3166; 3167; 3168; 3169; 3170; 3171; 3172; 3173; 3174; 3175; 3176; 3177; 3178; 3179; 3180; 3181; 3182; 3183; 3184; 3185; 3186; 3187; 3188; 3189; 3190; 3191; 3192; 3193; 3194; 3195; 3196; 3197; 3198; 3199; 3200; 3201; 3202; 3203; 3204; 3205; 3206; 3207; 3208; 3209; 3210; 3211; 3212; 3213; 3214; 3215; 3216; 3217; 3218; 3219; 3220; 3221; 3222; 3223; 3224; 3225; 3226; 3227; 3228; 3229; 3230; 3231; 3232; 3233; 3234; 3235; 3236; 3237; 3238; 3239; 3240; 3241; 3242; 3243; 3244; 3245; 3246; 3247; 3248; 3249; 3250; 3251; 3252; 3253; 3254; 3255; 3256; 3257; 3258; 3259; 3260; 3261; 3262; 3263; 3264; 3265; 3266; 3267; 3268; 3269; 3270; 3271; 3272; 3273; 3274; 3275; 3276; 3277; 3278; 3279; 3280; 3281; 3282; 3283; 3284; 3285; 3286; 3287; 3288; 3289; 3290; 3291; 3292; 3293; 3294; 3295; 3296; 3297; 3298; 3299; 3300; 3301; 3302; 3303; 3304; 3305; 3306; 3307; 3308; 3309; 3310; 3311; 3312; 3313; 3314; 3315; 3316; 3317; 3318; 3319; 3320; 3321; 3322; 3323; 3324; 3325; 3326; 3327; 3328; 3329; 3330; 3331; 3332; 3333; 3334; 3335; 3336; 3337; 3338; 3339; 3340; 3341; 3342; 3343; 3344; 3345; 3346; 3347; 3348; 3349; 3350; 3351; 3352; 3353; 3354; 3355; 3356; 3357; 3358; 3359; 3360; 3361; 3362; 3363; 3364; 3365; 3366; 3367; 3368; 3369; 3370; 3371; 3372; 3373; 3374; 3375; 3376; 3377; 3378; 3379; 3380; 3381; 3382; 3383; 3384; 3385; 3386; 3387; 3388; 3389; 3390; 3391; 3392; 3393; 3394; 3395; 3396; 3397; 3398; 3399; 3400; 3401; 3402; 3403; 3404; 3405; 3406; 3407; 3408; 3409; 3410; 3411; 3412; 3413; 3414; 3415; 3416; 3417; 3418; 3419; 3420; 3421; 3422; 3423; 3424; 3425; 3426; 3427; 3428; 3429; 3430; 3431; 3432; 3433; 3434; 3435; 3436; 3437; 3438; 3439; 3440; 3441; 3442; 3443; 3444; 3445; 3446; 3447; 3448; 3449; 3450; 3451; 3452; 3453; 3454; 3455; 3456; 3457; 3458; 3459; 3460; 3461; 3462; 3463; 3464; 3465; 3466; 3467; 3468; 3469; 3470; 3471; 3472; 3473; 3474; 3475; 3476; 3477; 3478; 3479; 3480; 3481; 3482; 3483; 3484; 3485; 3486; 3487; 3488; 3489; 3490; 3491; 3492; 3493; 3494; 3495; 3496; 3497; 3498; 3499; 3500; 3501; 3502; 3503; 3504; 3505; 3506; 3507; 3508; 3509; 3510; 3511; 3512; 3513; 3514; 3515; 3516; 3517; 3518; 3519; 3520; 3521; 3522; 3523; 3524; 3525; 3526; 3527; 3528; 3529; 3530; 3531; 3532; 3533; 3534; 3535; 3536; 3537; 3538; 3539; 3540; 3541; 3542; 3543; 3544; 3545; 3546; 3547; 3548; 3549; 3550; 3551; 3552; 3553; 3554; 3555; 3556; 3557; 3558; 3559; 3560; 3561; 3562; 3563; 3564; 3565; 3566; 3567; 3568; 3569; 3570; 3571; 3572; 3573; 3574; 3575; 3576; 3577; 3578; 3579; 3580; 3581; 3582; 3583; 3584; 3585; 3586; 3587; 3588; 3589; 3590; 3591; 3592; 3593; 3594; 3595; 3596; 3597; 3598; 3599; 3600; 3601; 3602; 3603; 3604; 3605; 3606; 3607; 3608; 3609; 3610; 3611; 3612; 3613; 3614; 3615; 3616; 3617; 3618; 3619; 3620; 3621; 3622; 3623; 3624; 3625; 3626; 3627; 3628; 3629; 3630; 3631; 3632; 3633; 3634; 3635; 3636; 3637; 3638; 3639; 3640; 3641; 3642; 3643; 3644; 3645; 3646; 3647; 3648; 3649; 3650; 3651; 3652; 3653; 3654; 3655; 3656; 3657; 3658; 3659; 3660; 3661; 3662; 3663; 3664; 3665; 3666; 3667; 3668; 3669; 3670; 3671; 3672; 3673; 3674; 3675; 3676; 3677; 3678; 3679; 3680; 3681; 3682; 3683; 3684; 3685; 3686; 3687; 3688; 3689; 3690; 3691; 3692; 3693; 3694; 3695; 3696; 3697; 3698; 3699; 3700; 3701; 3702; 3703; 3704; 3705; 3706; 3707; 3708; 3709; 3710; 3711; 3712; 3713; 3714; 3715; 3716; 3717; 3718; 3719; 3720; 3721; 3722; 3723; 3724; 3725; 3726; 3727; 3728; 3729; 3730; 3731; 3732; 3733; 3734; 3735; 3736; 3737; 3738; 3739; 3740; 3741; 3742; 3743; 3744; 3745; 3746; 3747; 3748; 3749; 3750; 3751; 3752; 3753; 3754; 3755; 3756; 3757; 3758; 3759; 3760; 3761; 3762; 3763; 3764; 3765; 3766; 3767; 3768; 3769; 3770; 3771; 3772; 3773; 3774; 3775; 3776; 3777; 3778; 3779; 3780; 3781; 3782; 3783; 3784; 3785; 3786; 3787; 3788; 3789; 3790; 3791; 3792; 3793; 3794; 3795; 3796; 3797; 3798; 3799; 3800; 3801; 3802; 3803; 3804; 3805; 3806; 3807; 3808; 3809; 3810; 3811; 3812; 3813; 3814; 3815; 3816; 3817; 3818; 3819; 3820; 3821; 3822; 3823; 3824; 3825; 3826; 3827; 3828; 3829; 3830; 3831; 3832; 3833; 3834; 3835; 3836; 3837; 3838; 3839; 3840; 3841; 3842; 3843; 3844; 3845; 3846; 3847; 3848; 3849; 3850; 3851; 3852; 3853; 3854; 3855; 3856; 3857; 3858; 3859; 3860; 3861; 3862; 3863; 3864; 3865; 3866; 3867; 3868; 3869; 3870; 3871; 3872; 3873; 3874; 3875; 3876; 3877; 3878; 3879; 3880; 3881; 3882; 3883; 3884; 3885; 3886; 3887; 3888; 3889; 3890; 3891; 3892; 3893; 3894;

United Nations Educational, Scientific and Cultural Organisation

Support for international science : Council for the Exploration of the Sea.

Papers 1946, 1949.

One of the reasons that Needham tried to introduce the 'S' into UNESCO was to support existing structures of international scientific cooperation, such as the international scientific unions and their umbrella body, the International Council of Scientific Unions (ICSU).

The material relates to Natural Sciences Section relations with individual international science bodies, including proposals to form new international unions affiliated to ICSU. At D.300 is a little general material on UNESCO relations with non-governmental international scientific organisations.

International Hydrographic Bureau.

D.270-D.279

International Council of Scientific Unions.

Chiefly duplicated typescript papers.

D.284

International Mathematical Union.

D.270-D.272

ICSU executive committee papers, 1947. 3 folders.

Correspondence and papers re proposed International Union, 1947-1948.

D.273-D.277

ICSU Monthly Bulletins 1-32, September 1947 - May 1951. Not a complete sequence. 5 folders.

Letter only, 1949.

D.278

Correspondence re questionnaire on international science cooperation for peace, circulated by ICSU's Committee on Science and its Social Relations, 1948.

D.279 D.286

'Reports from the International Council of Scientific Unions and its constituent organizations on their activities for which UNESCO allocated grants-in-aid in 1949'.

Papers re discussion of formation of proposed International Union at the first International Congress of Biochemistry, Cambridge, 19-25 August 1949.

D.280

International Association of Microbiologists.

D.285

Papers for meeting on 21 August of international committee of the Union. There was a UNESCO observer at the meeting, at which the proposals for the Union were discussed.

International Committee for Bird Protection.

D.286

Memorandum from J.S. Huxley, 1949. Joint Honorary Secretary of the Congress, September - November 1949.

International committee on anatomical nomenclature.

Letter re possible formation of international committee, 1950.

United Nations Educational, Scientific and Cultural Organisation

- D.281 International Council for the Exploration of the Sea.
Papers, 1946, 1949.
- D.282 International Federation of Culture Collections.
Annual reports for 1947 and 1948.
- D.283 International Hydrographic Bureau.
Statutes; report of activities 1947.
- D.284 International Mathematical Union.
Correspondence and papers *re* proposed International Union, 1947-1948.
- D.285 International Meteorological Organisation.
Letter only, 1949.
- D.286 International Organisation for Standardisation.
Information, 1949.
- D.285, D.286 International Union of Biochemistry.
Correspondence and papers *re* discussions on formation of proposed International Union at the first International Congress of Biochemistry, Cambridge, 19-25 August 1949.
- D.285 Papers for meeting on 21 August of international committee of the Congress. Needham was a UNESCO observer at the meeting, at which the proposals for the Union were discussed.
- D.286 Correspondence arising with F. Dickens, Joint Honorary Secretary of the Congress, September - November 1949.

United Nations Educational, Scientific and Cultural Organization

- D.281 International Council for the Exploration of the Sea
Report 1946, 1948
- D.282 International Federation of Culture Collections
Annual reports for 1947 and 1948
- D.283 International Hydrographic Bureau
Statute, report of activities 1947
- D.284 International Mathematical Union
Correspondence and papers in proposed International Union, 1947-1948
- International Ethnological Organization
Letter only, 1948
- International Organization for Standardization
Information, 1948
- D.285, D.286 International Union of Biochemistry
Correspondence and papers in discussions on formation of proposed International Union at the first International Congress of Biochemistry, Cambridge, 19-25 August 1948
- D.287 Papers for meeting on 21 August of international committee of the Congress. Neuman was a UNESCO observer at the meeting, at which the proposals for the Union were discussed
- D.288 Correspondence arising with F. Dickson, Joint Honorary Secretary of the Congress, September - November 1948

United Nations Educational, Scientific and Cultural Organisation

- D.287 *D.285* International Union of Biological Sciences.
Miscellaneous correspondence, 1948. *Document of the International Union for the Protection of Nature, Fontainebleau, France, 30 September - 7 October 1948. 3 folders.*
- D.288 International Union of Geology and Palaeontology.
D.288 Papers *re* discussions on formation of proposed International Union at the 18th International Geological Congress, London, August 1948. Needham was a UNESCO observer at meetings at which this proposal was discussed.
Material includes Needham's 7pp typescript report.
International Union of Pure and Applied Chemistry.
- D.289-D.295 International Union of Nutritional Sciences (IUNS).
Principally duplicated typescript papers of the Provisional Committee for forming an International Union of Nutritional Sciences, 1948-1949, and of the IUNS itself, 1949-1960. It is likely that many of the later papers are those of Lu Gwei-Djen who served as UNESCO representative on the IUNS Committee.
- D.289 *National Research Council* 1948. Chiefly *re* meeting of Provisional Committee, London, 10-12 June. Needham was an unofficial UNESCO observer.
The US National Research Council established the Committee on UNESCO, under the auspices of its Division of International Relations, in April 1947. It
- D.290 1949. Chiefly *re* application for membership of ICSU. *Needham received memoranda and papers from its Chairman, B. J. Bok.*
- D.291 *D.302* 1950. Chiefly *re* application for affiliation with ICSU. *1950: 3 folders.*
- D.292 *D.313* 1951. Affiliation. *Other papers circulated to Committee members by the Chairman, April 1948 - July 1950. 11 folders. Not a complete sequence.*
- D.293 Three memoranda report on developments within the Natural Sciences 1952.
- D.294 *D.316* 1954. *See in UNESCO bulletin nos. 7 - 12, 1948 - 1950. 3 folders.*
The bulletins were issued by the Committee to inform the American public of the work of the Natural Sciences Section.
- D.295 1957, 1960.

United Nations Educational, Scientific and Cultural Organization

International Union of Biological Sciences	D.297
Miscellaneous correspondence, 1948	
International Union of Geology and Palaeontology	D.298
Papers in discussion on formation of proposed International Union at the 18th International Geological Congress, London, August 1958. Headman was a UNESCO observer at meeting at which this proposal was discussed.	
Material includes Headman's trip report.	
International Union of Natural Sciences (IUNS)	D.299-D.300
Partially duplicated typewritten papers of the Provisional Committee for forming an International Union of Natural Sciences, 1948-1949, and of the IUNS itself, 1949-1950. It is likely that many of the later papers are those of Lu Gwei-Djen who served as UNESCO representative on the IUNS Committee.	
1948. Chiefly in meeting of Provisional Committee, London, 10-12 June. Headman was an unofficial UNESCO observer.	D.301
1949. Chiefly in application for membership of ICSU.	D.302
1950. Chiefly in application for affiliation with ICSU.	D.303
1951. Affiliation.	D.304
1952. Chiefly in meeting of the IUNS at the UNESCO headquarters in Paris.	D.305
1954.	D.306
1957, 1958.	D.307

United Nations Educational, Scientific and Cultural Organisation

D.296-D.298 **International Union for the Protection of Nature.**

Papers for Conference for the Establishment of the International Union for the Protection of Nature, Fontainebleau, France, 30 September - 7 October 1948. 3 folders.

D.299

International Union of the Philosophy of Science.

Letter only 1948.

International Union of Pure and Applied Chemistry.

D.317-D.323

Papers 1949, 1950.

D.300

General papers *re* UNESCO relations with non-governmental international scientific bodies, 1950-1952.

D.318

National Research Council Committee on UNESCO

The US National Research Council established the Committee on UNESCO, under the auspices of its Division of International Relations, in April 1947. It liaised with the Natural Sciences Section of UNESCO. Needham received memoranda and papers from its Chairman, B.J. Bok.

D.318

D.301, D.302

Papers of Committee meetings, January 1948 - June 1949. 2 folders.

D.320

D.303-D.313

Memoranda and other papers circulated to Committee members by the Chairman, April 1948 - July 1950. 11 folders. Not a complete sequence.

D.321

These memoranda report on developments within the Natural Sciences Section.

D.322

D.314-D.316

'Science in UNESCO' bulletin nos. 7 - 13, 1948 - 1950. 3 folders.

D.323, D.324

The bulletins were issued by the Committee to inform the American public of the work of the Natural Sciences Section. Social Council *re* international research laboratories, 1948. Includes at D.323 draft resolution submitted by French delegation calling for the establishment of such laboratories. 2 folders.

United Nations Educational, Scientific and Cultural Organization

- D.256-D.258 International Union for the Protection of Nature
Papers for Conference for the Establishment of the International Union for the Protection of Nature, Fontainebleau, France, 30 September - 7 October 1948. 3 folders.
- D.259 International Union of the Philosophy of Science
Letter only 1948.
- International Union of Pure and Applied Chemistry
Papers 1949, 1950.
- D.260 General papers on UNESCO relations with non-governmental international scientific bodies, 1950-1955.
- National Research Council Committee on UNESCO
The US National Research Council established the Committee on UNESCO under the auspices of its Division of International Relations in April 1947. It issued with the Natural Sciences Section of UNESCO. Neffman received memoranda and papers from its Chairman, S.L. Bok.
- D.302-D.305 Papers of Committee meetings, January 1948 - June 1949. 2 folders.
- D.303-D.313 Memoranda and other papers circulated to Committee members by the Chairman, April 1948 - July 1950. 11 folders. Not a complete sequence.
- These memoranda report on developments within the Natural Sciences Section.
- D.314-D.316 Science in UNESCO' bulletin nos. 7 - 13, 1948 - 1950. 3 folders.
- The bulletins were issued by the Committee to inform the American public of the work of the Natural Sciences Section.

United Nations Educational, Scientific and Cultural Organisation

UNITED NATIONS RESEARCH LABORATORIES

- D.330, D.331 The question of the establishment and administration of international research laboratories came under the auspices of the United Nations Economic and Social Council rather than UNESCO, as it was felt to have implications beyond the scientific or cultural spheres. The material includes papers of the Economic and Social Council and of the Committee of Scientific Experts on International Research Laboratories. This Committee, on which Needham served, met in August 1949 to consider the feasibility of setting up UN-run research institutes, independent of national governments.
- D.332
- D.317-D.322 'International scientific research institutes (UN cttee) notes and correspondence'. Contents of Needham's folder so inscribed divided into six for ease of reference. 1945-1952.
- D.317 Offprints of articles *re* international research institutes, 1945, 1948; correspondence 1948, chiefly *re* UNESCO interest.
- D.318 Correspondence and papers, March - July 1949, chiefly *re* meeting of Committee of Experts, Paris, August.
- D.319 Papers, August, *re* Committee of Experts meeting. Includes Needham's manuscript notes and draft report of the meeting.
- D.320 Correspondence and papers, September - December 1949.
- D.321 Correspondence and papers, 1950. Includes material *re* possible international meteorological centre.
- D.322 Papers *re* establishment of international computation centre, 1952.
- D.323, D.324 Background papers of Economic and Social Council *re* international research laboratories, 1946. Includes at D.323 draft resolution submitted by French delegation calling for the establishment of such laboratories. 2 folders.

UNITED NATIONS RESEARCH LABORATORIES

The question of the establishment and administration of international research laboratories came under the auspices of the United Nations Economic and Social Council after the UNESCO, as it was left to have implications beyond the scientific or cultural sphere. The material includes papers of the Economic and Social Council and of the Committee of Scientific Experts on International Research Laboratories. The Committee on which Neetham served, met in August 1948 to consider the feasibility of setting up UN-run research institutes, independent of national governments.

International scientific research institutes (UN files) notes and correspondence. Contents of Neetham's folder so searched divided into six for ease of reference. 1948-1952.

Outline of articles in International Research Institute, 1948, 1949, correspondence 1948, chiefly in UNESCO interest.

Correspondence and papers, March - July 1949, chiefly in meeting of Committee of Experts, Paris, August.

Neetham accepted an invitation to join the Committee.

Papers, August, in Committee of Experts meeting. Includes Neetham's manuscript notes and draft report of the meeting.

Correspondence and papers, September - December 1948.

Correspondence and papers, 1950. Includes material in possible International meteorological centre.

Papers in establishment of international computation centre, 1952.

Background papers of Economic and Social Council in international research laboratories, 1948. Includes at D.323 draft resolution submitted by French delegation calling for the establishment of such laboratories. 2 folders.

D.317-D.322

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D.323, D.324

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United Nations Educational, Scientific and Cultural Organisation

D.325-D.329 'Report of the Secretary General on Establishing United Nations Research Laboratories', 23 January 1948. Annotated by Needham. 5 folders.

D.342 1948 (3). *Chiefly correspondence re reform of UNESCO*
D.330, D.331 Papers for meetings of Economic and Social Council 1948 at which the Report was discussed. 2 folders.

D.343 1948 (3). *Committee meeting, 18 October.*

D.332 UN report on *The Question of Establishing United Nations Research Laboratories* (New York, December 1948), annotated by Needham.

D.344 1948 (4).

D.333-D.336 Papers for meetings of Committee of Scientific Experts on International Research Laboratories, Paris, August 1949. 4 folders.

D.345 1949 (1). *22 February. Committee meeting, 24 May.*

D.337, D.338 Report of the Committee of Experts, May 1950. 2 folders.

D.346 1949 (2).
The report supported the establishment of international research institutes.

D.347 1949 (3). *Includes correspondence re UNESCO programme and letter to the*
D.339 'Second report by the Secretary-General on the question of establishing United Nations Research Laboratories', June 1950.

D.348 1950 (1). *Committee meeting, 8 March.*

BRITISH COMMITTEE FOR CO-OPERATION WITH UNESCO IN THE NATURAL SCIENCES

D.349 1950 (2). *Meeting and report of special committee on the UNESCO Project for a Scientific and Cultural History of Man and the World, 12 March. See D.195*
Needham was appointed a Royal Society representative on the British Committee for Co-operation with UNESCO in the Natural Sciences in May 1947. He served to 1952.

D.350 The committee was one of a number of co-operating bodies which formed the UK National Commission for UNESCO. The material includes papers for meetings of the Committee, general papers of the UK National Commission for UNESCO and papers circulated to all the national co-operating bodies. There is also correspondence re issues raised at meetings.

D.351

D.340 1947. 1 Correspondence re invitation to join the Committee; UK representation at the UNESCO General Conference.

D.353 1951 (2). *Committee meeting, 25 April.*

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- Report of the Secretary-General on Establishing United Nations Research Laboratories, 25 January 1948. Approved by Needham, 2 folders. D.328-D.329
- Papers for meetings of Economic and Social Council 1948 at which the Report was discussed, 2 folders. D.330-D.331
- UN report on the Question of Establishing United Nations Research Laboratories (New York, December 1948), submitted by Needham. D.332
- Papers for meetings of Committee of Scientific Experts on International Research Laboratories, Paris, August 1949, 4 folders. D.333-D.335
- Report of the Committee of Experts, May 1950, 2 folders. D.337, D.338
- The report supported the establishment of international research institutes. D.339
- Second report by the Secretary-General on the question of establishing United Nations Research Laboratories, June 1950. D.339

BRITISH COMMITTEE FOR CO-OPERATION WITH UNESCO IN THE NATURAL SCIENCES

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1947. Correspondence in invitation to join the Committee, UK representation at the UNESCO General Conference. D.340

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- D.341 1948 (1). Committee meeting, 19 May.
- D.342 1948 (2). Chiefly correspondence *re* reform of UNESCO.
- D.343 1948 (3). Committee meeting, 19 October.
- D.344, D.358 1948 (4). *re* various material found with preceding British Committee papers.
- D.345 1949 (1). Letter *re* meeting of Co-operating Bodies, 22 February; Committee meeting, 24 May.
- D.346 1949 (2). British Commonwealth Scientific Office (North America) report on 'The ... in branches of the British Museum Institute', December 1953.
Annual Report of the United Kingdom Scientific Research Organization in Germany, 8 April 1954.
- D.347 1949 (3). Includes correspondence *re* UNESCO programme and budget for 1950.
- FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS**
- D.348 1950 (1). Committee meeting, 8 March.
- D.349 1950 (2). Meeting and report of special committee on the UNESCO Project for a Scientific and Cultural History of Mankind, 13 March. See D.166, D.167 above.
- D.350 1950 (3). Report of the United Kingdom to UNESCO for 1949.
- D.351 1950 (4). Committee meeting, 23 October.
- D.352 1951 (1). Meeting of National Commission, 4 April.
- D.353 1951 (2). Committee meeting, 25 April.

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1948 (7). Committee meeting, 18 May.	D.341
1948 (3). Study correspondence in form of UNESCO.	D.342
1948 (2). Committee meeting, 18 October.	D.343
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1949 (1). Letter re meeting of Co-ordinating Bureau, 25 February. Committee meeting, 24 May.	D.345
1949 (2).	D.346
1949 (3). Includes correspondence re UNESCO programme and budget for 1950. Includes also correspondence re the question of membership.	D.347
1950 (1). Committee meeting, 8 March.	D.348
1950 (2). Meeting and report of special committee on the UNESCO Project for a Scientific and Cultural History of Mankind. See D.186, D.187 above.	D.349
1950 (3). Report of the United Kingdom to UNESCO for 1949.	D.350
1950 (4). Committee meeting, 23 October.	D.351
1951 (1). Meeting of National Commission, 4 April.	D.352
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- D.354 1951 (3). Report of the United Kingdom to UNESCO for 1950.
- D.355 1951 (4). Committee meeting, 16 November.
- D.356 1952.
- D.357, D.358 Miscellaneous material found with preceding British Committee papers.
- D.357 Duplicated typescript information sheets on geology, pharmacy and chemistry in USA, 1949.
- D.358 British Commonwealth Scientific Office (North America) report on 'The European branches of the Battelle Memorial Institute', December 1953.
- Annual Report of the United Kingdom Scientific Research Organization in Germany, 8 April 1954.

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- D.359-D.365 Press-releases and other literature *re* work of the FAO, June - November 1949, sent to Needham for information. 7 folders.



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- D.354 1951 (3) - Report of the United Kingdom to UNESCO for 1950.
- D.355 1951 (4) - Committee meeting, 18 November.
- D.356 1952 - ...
- D.357, D.358 Miscellaneous material found with preceding British Committee papers.
- D.357 Duplicated typewritten information sheets on geology, pharmacy and chemistry in USA, 1949.
- D.358 British Commonwealth Scientific Office (North America) report on The European Director of the British Museum Institute, December 1952.
- Annual Report of the United Kingdom Scientific Research Organization in Germany, 2 April 1954.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

- D.359/D.360 Press-releases and other literature in work of the FAO, June - November 1949, sent to Headroom for information, 7 folders.





