

JESUS COLLEGE OXFORD

JC:P175 SCIENTIFIC PAPERS OF MURIEL CHAPMAN (NÉE HOLMES), 1920s-1930s

Muriel Catherine Channing Chapman, née Holmes (1894-1988), was the daughter of Samuel Holmes (1858-1918). Although Holmes had already received a degree from Durham in 1886, he matriculated at Oxford in 1896, and was admitted to Jesus College in 1898. He received a Second in Theology in 1900 and a Second in Oriental Studies in 1902. From 1907-15 he was College Lecturer in Theology at Jesus, and in 1912-15 he was its Chaplain. In 1915 he was appointed to a College living at Braunston.

Muriel Holmes was educated at the Oxford High School for Girls, and then studied at Royal Holloway College, where she was awarded a B.Sc. in 1916. In 1917 she became a member of the Society of Home Students (later St. Anne's College), and in 1923 received a B.Sc. from Oxford.

No doubt thanks to her father's links with the College, Holmes worked at the Leoline Jenkins Laboratory, and in 1918, she married her supervisor, David Chapman (1869-1958), who was a Fellow of Jesus College from 1907-44, and ran the Leoline Jenkins Laboratory within the College. They had a daughter, Ruth. At the Laboratory, Muriel Chapman carried out research into the reaction between hydrogen and chlorine, and published several papers in the 1920s and 1930s, including at least two in collaboration with her husband.

Most of the papers in this collection relate to Muriel Chapman's scientific work, but some of them relate to animal welfare. Chapman was a keen supporter of the League for the Prohibition of Cruel Sports (later known as the League against Cruel Sports), apparently joining it at the time of its foundation in 1924, and in the early 1930s she was Hon. Secretary of the Oxford and District Branch of the League.

These papers were presented to the College in October and December 1995 by Chapman's son-in-law Anthony Tomkinson. Correspondence about this may be found at OM ENQ 7(c).

Catalogued in December 2018.

JC:P175/PI - PHOTOGRAPHS

This is a group of copies of photographs given to the College by Anthony Tomkinson. Most of them came from a photograph album made up by Muriel Chapman. In the accompanying letter Tomkinson gives some information about each photo which is recorded here.

JC:P174/PI/1

7 Dec 1995

Letter from Anthony Tomkinson describing the following photographs.

JC:P174/PI/2

c. 1916

Copy of photograph of Muriel Chapman. Tomkinson writes: "The original print is stamped E. Worsley Benison, The Studio, Egham, and must be of Muriel Holmes (as she was then) when at Royal Holloway College".

JC:P174/PI/3

1918

Copy of photograph of Muriel and David Chapman. Tomkinson writes "Marked in album *Muriel 1918*. Kathleen Holmes thinks it was taken at Braunston Rectory on

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the tennis lawn with the orchard in the background. Muriel is with D. L. Chapman, about the time of their marriage (20 March 1918).” Muriel’s father Samuel Holmes was Rector of Braunston at this time.

JC:PI74/PI/4

1920

Copy of photograph of Muriel Chapman with her daughter Ruth. Tomkinson writes: “Marked in album *R 1 year old?* 1920. Ruth was born 21 March 1919.”

JC:PI74/PI/5

c. 1924?

Copy of photograph of Muriel, David and Ruth Chapman. Tomkinson writes: “Not dated in album. Can only be fixed by age of Ruth, perhaps 5? D. L. Chapman is typical with pipe and bicycle clips.”

JC:PI74/PI/6

1937

Copy of photograph of Muriel Chapman. Tomkinson writes: “This was the photo used in Mrs. Chapman’s passport issued 27 July 1937.”

JC:PI74/PI/7

1950

Copy of photograph of Muriel Chapman and another woman. Tomkinson writes: “Marked in album *London 1950*. I seem to remember this was taken by a street photographer. Muriel’s companion is Miss Irene Hubbard, her great friend. Miss Hubbard was a sister of Charles Edward Hubbard (1900-1980), Deputy Director of Kew and author of a standard book on grapes.”

JC:PI74/PI/8

n.d. (c. 1900?)

Copy of photograph of David Chapman. Tomkinson writes: “This is the only photo of D. L. Chapman that we have apart from those where he appears with Muriel. It was used to illustrate the Memoir of the Royal Society on his life. The copy I send you was made from a copy in Mrs. Chapman’s papers.”

JC:PI74/PI/9-12

1995

Negatives of the preceding prints.

JC:PI75/MSI - SCIENCE NOTEBOOKS

JC:PI75/MSI/1

n.d. (c. 1923)

Notebook of Muriel Chapman, on articles about the combination of hydrogen and chlorine by photochemical reactions. This is related to her paper on the subject at JC:PI75/MS2/10 below.

JC:PI75/MSI/2

n.d. (1920s-1930s?)

Notebook of Muriel Chapman, with notes on some 17th and 18th century scientists.

JC:PI75/MSI/3

n.d. (1920s-1930s?)

Notebook of Muriel Chapman, containing notes on radiation, ionisation, chemical reactions.

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JC:PI75/MS1/4 n.d. (1920s-1930s?)
Notebook of Muriel Chapman, used to record her experiments into chlorine

JC:PI75/MS1/5 c. 1925-39
Notebook of Muriel Chapman, used to take notes on various experiments. The condition of the covers of the notebook suggests that various substances have been poured on it. The book was used at various times between 1925 and 1939.

JC:PI75/MS2 – DRAFTS AND OFFPRINTS OF AND CONCERNING MURIEL CHAPMAN'S SCIENTIFIC PUBLICATIONS AND OTHER WORKS

JC:PI75/MS2/1 n.d. (1917)
Typescript by Muriel Holmes of her article "The Mercury Ammonia Compounds Part I".

JC:PI75/MS2/2 1918
Two copies of an offprint of an article by Muriel Holmes, "The Mercury Ammonia Compounds Part I", published in *Transactions of the Chemical Society*, 113 (1918), pp. 74-9. At the end is a note that her paper was received on 8 November 1917.

JC:PI75/MS2/3 1923
Typescript of Muriel Chapman's Oxford B.Sc. thesis, titled "The Laws of Photo-Chemistry".

JC:PI75/MS2/4 n.d. (1923)
Folder containing a draft, part handwritten and part typed, of Muriel Chapman's paper "A Quantitative Investigation of the Photochemical Interaction of Chlorine and Hydrogen". The folder also contains notes by Chapman on other chemical experiments.

JC:PI75/MS2/5 n.d. (1923)
Manuscript of David and Muriel Chapman's joint short paper, "Note on the theory of the change."

JC:PI75/MS2/6-8 Sep 1923
Three copies of a typescript of a paper by Muriel Chapman titled "A Quantitative Investigation of the Photochemical Interaction of Chlorine and Hydrogen", to which is appended a short paper by Muriel and David Chapman titled "Note on the Theory of the Change". The paper is undated, but **MS2/6** has been datestamped 17 September 1922 by the Chemical Society. Of these copies, **MS2/8** lacks the final page of the Chapmans' short article at the end.

JC:PI75/MS2/9 Nov 1923
Typescript of a much revised version of Chapman's paper "A Quantitative Investigation of the Photochemical Interaction of Chlorine and Hydrogen", which has been datestamped 19 November 1923 by the Chemical Society.

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JC:PI75/MS2/10

1923

Two copies of an offprint of an article by Muriel Chapman, "A Quantitative Investigation of the Photochemical Interaction of Chlorine and Hydrogen", published in *Transactions of the Chemical Society*, 123 (1923), pp. 3062-81. At the end of the paper is a short afterword by David and Muriel Chapman, "Note on the Theory of the Change". At the end is a note that her paper was received on 17 September 1923.

The text of this paper is identical with the revised version of Chapman's typescript of this paper at **JC:PI75/MS2/9** above.

JC:PI75/MS2/11

n.d. (1920s?)

Four pages of very rough notes of chemical formulae involving hydrogen and chlorine.

JC:PI75/MS2/12

Oct 1923-Mar 1924

Envelope containing correspondence with the Chemical Society about articles submitted by Muriel Chapman. It includes a referee's report turning down a paper offered by her, and a draft letter from David Chapman protesting at the referee's decision.

JC:PI75/MS2/13

25 Feb 1924

Invoice from William Hunt, Oxford Typewriter Stationer, to Muriel Chapman, for producing three typed copies of her paper on Photochemistry.

JC:PI75/MS2/14

23 Jun 1924

Letter to Muriel Chapman from the Secretary of the Chemical Society informing her that her paper on the first law of photochemistry has been accepted for publication.

JC:PI75/MS2/15

1924

Two copies of an offprint of an article by Muriel Chapman, "The First Law of Photochemistry", published in *Transactions of the Chemical Society*, 125 (1924), pp. 1521-6. At the end is a note that her paper was received on 3 March 1924.

JC:PI75/MS2/16

1924

Copy of a diagram of apparatus to accompany Muriel Chapman's thesis "The Laws of Photo-Chemistry".

JC:PI75/MS2/17

n.d. (1920s?)

Manuscript containing the incomplete text of an untitled book in Muriel Chapman's hand. The text as it stands has six chapters, titled:

Chapter I: "Distribution of velocities. Laws of a Perfect Gas."

Chapter II: "Real Gases. Van de Waal's Equation of State. Theory of the Virial".

Chapter III: "Mean Free Path, Viscosity, Thermal Conductivity, Diffusion."

Chapter IV: "Specific Heats of Gases. Equipartition of Energy."

Chapter V: "Thermodynamics and Statistical Mechanics – Entropy and Probability."

Chapter VI: "Specific Heats of Solids. The Quantum Theory."

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JC:PI75/MS4/I-4 were found with this manuscript.

JC:PI75/MS2/18

9 Oct 1934

Letter from the Faraday Society to Muriel Chapman enclosing her proposed paper, "An Alternative Mechanism for the Photochemical Reaction between Hydrogen and Chlorine", with a referee's comments.

JC:PI75/MS2/19

2 Nov 1934

Letter from the Faraday Society to Muriel Chapman noting her decision to withdraw her paper for the time being (presumably the paper attached to the preceding letter).

JC:PI75/MS2/20

1937

Folder containing several typescript drafts of the article "Experiments on the Combination of Nitrogen Peroxide and Nitric Oxide in the Absence of Moisture". Some of them bear both the Chapmans' names, but most bear just Muriel's.

JC:PI75/MS2/21

1937

Three copies, with an envelope, of an offprint or an article by David and Muriel Chapman, "Experiments on the Combination of Nitrogen Peroxide and Nitric Oxide in the Absence of Moisture", from the *Journal of the Chemical Society* 1937, pp. 1991-2. At the end is a note that their paper was received on 18 October 1937.

JC:PI75/MS3 – PAPERS ON OTHER SUBJECTS

JC:PI75/MS3/1

n.d. (1930s?)

Manuscript essay by Muriel Chapman titled "Fielding as Moralist", on the novelist Henry Fielding. At the top of it has been added "John O'London's Weekly", which suggests that it was offered to that periodical for publication.

JC:PI75/MS3/2

n.d. (c. 1939?)

Typescript and manuscript versions, both incomplete, of an essay "Jane Austen's Cookery Book", which appears to be by Muriel Chapman. Undated, but there is a reference in it to "the present day – or shall we say 1939."

JC:PI75/MS4 – PAPERS ON CAMPAIGNS AGAINST CRUEL SPORTS

All these items were found in **JC:PI75/MS2/17**.

JC:PI75/MS4/1

n.d. (1924?)

Copy of a speech by Muriel Chapman titled "Convention and Cruelty", which attacks sports in which animals are hunted. It is undated, but refers to the inaugural meeting of the League for the Prohibition of Cruel Sports (which became the League against Cruel Sports) on 25 November, which took place in 1924.

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JC:PI75/MS4/2

Sep 1947

Copy of issue no. 98 (Sept 1947) of the Bulletin of the National Society for Abolition of Cruel Sports.

JC:PI75/MS4/3

Aug 1949

Copy of an Intercession Paper printed by the Society for United Prayer for the Prevention of Cruelty to Animals, Aug 1949.

JC:PI75/MS4/4

Oct 1956

Copy of "League Doings", the Bulletin of the League against Cruel Sports, Aug-Oct 1956.

JC:PI75/NI – COPIES OF CRUEL SPORTS

JC:PI75/NI/1

1930

Copy of *Cruel Sports* (journal of the League for the Prohibition of Cruel Sports), Vol. IV (1930). This includes on pp. 14, 46, 67 and 78 reports of meetings and fetes attended and sometimes addressed by Muriel Chapman. The first report includes a speech by Mrs. Hazel, wife of the Principal of Jesus College, and the second gives an account of a meeting at Brackley being disrupted by protestors. A letter from Muriel Chapman is printed on p. 55.

JC:PI75/NI/2

1931

Copy of *Cruel Sports* Vol. V (1931). Reports on meetings attended or addressed by Muriel Chapman are given on pp. 8, 44, 51, 71-2 and 79. On p. 98 is a report of Chapman preparing a petition against the Christ Church and the New College, Balliol and Magdalen Beagles. Portions of pages 69-72 and 99-100 have been cut out.