

Papers of Professor William Price (1909-1993)

K/PP 84/1: Original research notes, mainly on spectroscopic analysis, with notes on literature, data print-outs and spectrographs, 1933-1986

K/PP 84/1/1	[1933-1976]	Research notes and experimental results on absorption bands of alkyl phenols, work undertaken by William Price at Imperial Chemical Industries (ICI) during World War Two, and work on the chemistry of crystals at King's College London. 1 file
K/PP 84/1/2	1933-1961	Research notes and experimental results on the ultraviolet spectra of the rare gases and the photoionization of molecules, with reprints. 1 file
K/PP 84/1/3	1935-1966	Research notes and experimental results on ethylene spectra, with reprints, graphs and charts. 1 file
K/PP 84/1/4	1945-1963	Research notes on the chemistry of hydrides and fluorides, and on practical optics, with diagrams and sketches. 1 file
K/PP 84/1/5	1946-1948	Notes relating to Price's employment at Imperial Chemical Industries (ICI) on ultraviolet absorption spectra and spectrophotometry, with experimental results. 1 file
K/PP 84/1/6	1951-1986	Notes on dissociation energies, defects in solids, the absorption of light in organic compounds and the photoelectric effect. 1 file
K/PP 84/1/7	1952-1977	Research notes on spectroscopy in general, including its theory and industrial application, with some teaching notes and reprints. 1 file
K/PP 84/1/8	1952	Research notes on bond and dissociation energies, with rough equations, charts and graphs. 1 file
K/PP 84/1/9	1954-1972	Research notes on photoionization and ionisation potentials of different molecules, with spectrographs and correspondence. 1 file
K/PP 84/1/10	1954	Test result charts for experiments relating to

		halogens. 1 file
K/PP 84/1/11	1961-1973	Research notes on spectrographic analysis and ionisation of alkali halides. 1 file
K/PP 84/1/12	1962	Data tables and correspondence relating to spectrographic absorption experiments on sulphur dioxide. 1 file
K/PP 84/1/13	[1963]	Research notes and experimental results on bond energies and dissociation energies of second row fluorides, with graphs. 1 file
K/PP 84/1/14	1963-1969	Graphs and charts showing bond and dissociation energies and the absorption spectra of a wide range of compounds. 1 file
K/PP 84/1/15	[1965]	Graphs and charts relating to the absorption spectra of hydrocarbons, with thermochemical data. 1 file
K/PP 84/1/16	1967-1977	Papers relating to photoelectron spectra and the study of collision processes. 1 file
K/PP 84/1/17	[1968]	Graphs and charts showing the absorption spectra of a large variety of compounds. 1 file
K/PP 84/1/18	[1969]	Graphs and charts showing the absorption spectra of a large variety of compounds. 1 file
K/PP 84/1/19	[1969]	Graphs and charts showing the absorption spectra of a large variety of compounds. 1 file
K/PP 84/1/20	[1969]	Graphs and charts showing the absorption spectra of a large variety of compounds. 1 file

K/PP 84/2: Notes compiled by William Price for the peer review of articles published in scientific journals, with some reprints, 1929-1977

K/PP 84/2/1	1929-1958	Manuscript and typescript notes on published articles by Price and other scholars concerning halogens, notably including hydrogen bromide, with their band spectra and the photoionization of halogens. 1 file
K/PP 84/2/2	1932-1970	Manuscript and typescript notes on published articles by Price and other scholars relating to halogens, including their acids, spectra in the vacuum ultraviolet, molecular fluorine, and the

- photoionization and dissociation energies of fluorine and iodine molecules, with spectrographs, data tables and correspondence. 1 file
- K/PP 84/2/3 1935-1968 Manuscript and typescript notes on published articles by Price and other scholars on the ultraviolet absorption spectra of oxygen and naphthalene, with graphs, data tables, sketches and correspondence. 1 file
- K/PP 84/2/4 1935-1969 Manuscript and typescript notes on published articles by Price and other scholars relating to the shape, spectra and electronic orbitals of conjugated organic and polyatomic molecules, and on the phenomenon of fluorescence quenching. 1 file
- K/PP 84/2/5 1936-1977 Manuscript and typescript notes on published articles by Price and other scholars on water and hydrides including the absorption spectra of water and deuterium oxide in the vacuum ultraviolet. 1 file
- K/PP 84/2/6 1941-1959 Manuscript and typescript notes on published articles by Price and other scholars concerning ionisation potentials, conjugated molecules and aromatic molecules, with spectral analysis charts, designs for experiments and correspondence. 1 file
- K/PP 84/2/7 1947-1978 Manuscript and typescript notes on published articles by Price and other scholars on benzene, including its electronic structure and spectrum, and the ionisation potentials of fluorine-substituted benzenes and ethylene-methyl radicals. 1 file
- K/PP 84/2/8 1948-1969 Manuscript and typescript notes on published articles by Price and other scholars on the ionisation potentials of hydrocarbons. 1 file
- K/PP 84/2/9 1951 Manuscript and typescript notes on published articles by Price and other scholars relating to the absorption spectrum of ketene in the vacuum ultraviolet, with drafts. 1 file
- K/PP 84/2/10 1952-1970 Manuscript and typescript notes on published articles by Price and other scholars on the

electronic structure, photoionization and rotational analysis of nitrogen dioxide and nitric oxide, with graphs, data tables and correspondence. 1 file

K/PP 84/2/11 1954-1971

Manuscript and typescript notes on published articles by Price and other scholars relating to the chemistry of fluorine, including bond energies of second row fluorides and the electronic spectra of fluorine compounds, with the dissociation energies of gaseous alkali halides. 1 file

K/PP 84/2/12 1955-1962

Manuscript and typescript notes on published articles by Price and other scholars on ionisation potentials and mass spectrometry of free radicals. 1 file

K/PP 84/2/13 1955-1962

Manuscript and typescript notes on published articles by Price and other scholars relating to the structure and infrared spectra of the DNA molecule, polypeptide chains and keratin fibres. 1 file

K/PP 84/2/14 1959-1974

Manuscript and typescript notes on published articles by Price and other scholars concerning the electronic structure of halides and the ultraviolet absorption spectra of alkali halides, with graphs and data charts. 1 file

K/PP 84/2/15 1963

Manuscript and typescript notes on published articles by Price and other scholars on the ionisation and dissociation energies of hydrides and fluorides of first row elements, with drafts, graphs and data charts. 1 file

K/PP 84/2/16 1970-1971

Manuscript and typescript notes on published articles by Price and other scholars on the electronic configuration and structure of methane and fluoromethanes, with correspondence. 1 file

K/PP 84/3: Correspondence with William Price, 1942-1990

K/PP 84/3/1 1942-1990

General correspondence with William Price including personal letters, project data, the organisation of teaching and comments on aspects of theoretical physics, principally observations on papers of which Price was a

referee, including on the spectra of fluorides and coupling constants. 1 file

K/PP 84/3/2 1946-1990

Copies of correspondence with Price regarding publications, scholarships and describing experiments on spectroscopy, purines, isotropolenes, ionisation potentials and pyrimidines. 1 file

K/PP 84/4: Lecture notes and teaching papers, 1948-1978

K/PP 84/4/1 1948-1978

Teaching and lecture notes compiled by William Price including manuscript and typescript notes used by Price in his lectures and seminars at King's College London and other higher education institutions, mainly concerning the theory of spectroscopy, optics including refraction, the rudiments of electronic theory, and the operation of lasers. 1 file

K/PP 84/4/2 1959-1961

Lecture and teaching notes compiled by Price on optics and the electron microscope, including sketches, diagrams and equations. 1 file

K/PP 84/4/3 [1960-1969]

Lecture and teaching notes compiled by Price on optics, especially on diffraction analysis, wave forms, the Doppler effect and optical instruments. 1 file

K/PP 84/4/4 [1960-1969]

Lecture and teaching notes compiled by Price on optics, notably including the theory and application of spectroscopic analysis. 1 file

K/PP 84/4/5 [1960-1969]

Lecture and teaching notes compiled by Price on optics, notably including the theory and application of spectroscopic analysis. 1 file

K/PP 84/4/6 [1960-1969]

Lecture and teaching notes compiled by Price on basic molecular chemistry and the properties of the electron, with some material on optics and spectroscopy. 1 file

K/PP 84/4/7 [1960-1969]

Lecture and teaching notes compiled by Price on electron spin and electron configurations. 1 file

K/PP 84/4/8 [1960-1969]

Lecture and teaching notes compiled by Price

on spectroscopy and spectrum analysis, electron bond energies and the theory of magnetism. 1 file

K/PP 84/5: Papers relating to the work of William Price as a University tutor and examiner, 1952-1978

- K/PP 84/5/1 1952-1975 Typescript sessional and other examination question papers for King's College London Physics and Faculty of Science exam candidates, with annotations and amendments to drafts in the hand of William Price. 1 file
- K/PP 84/5/2 1953-1978 Printed examination question papers for Physics and Faculty of Science students of King's College London, the University of Hull and other British universities where William Price worked as an examiner, with annotation in Price's handwriting. 1 file
- K/PP 84/5/3 1961-1978 Draft examination question papers and notes and correspondence relating to the work of William Price as an examiner. 1 file

K/PP 84/6: Papers relating to the membership by William Price of various learned societies, and attendance at scientific conferences and symposia, 1940-1992

- K/PP 84/6/1 1940-1989 Manuscript and typescript notes and papers on public lectures and symposia, including some lecture texts by William Price, invitations and organisation. 1 file
- K/PP 84/6/2 1955-1992 Papers relating to the membership by William Price of various learned scientific societies, notably including The Royal Society. 1 file

K/PP 84/7: Obituaries and newspapers cuttings on William Price and other distinguished scientists, 1976-1993

- K/PP 84/7/1 1976-1993 Obituaries including that of William Price, 1978-1993; newspapers cuttings including on the reputation of Rosalind Franklin. 1 file

K/PP 84/8: Typescript and printed articles and papers by William Price and other authors on a wide range of scientific topics, 1945-1990

- K/PP 84/8/1- 1945-1980
7 Typescript papers and reports of drafts of William Price's own published work, or copies

of articles submitted to William Price for peer review, including on the excited states of gaseous ions, solid state spectroscopy; the theory of chemical bonding; the absorption spectra of organic compounds; University of Chicago spectroscopic laboratory results report; photoionization; vibronic interactions, conjugated hydrocarbons; ionisation potentials of halogenated and other radicals; the uses of synchrotron radiation, the Rydberg series of small molecules; King's College London Physics Department molecular spectroscopy report; Ph.D. thesis by Lennard Wharton entitled 'Molecular Beam Electric Resonance Spectroscopy' (Harvard University, 1963). 7 boxes

K/PP 84/8/8- 1932-1984
11

Reprints of articles by William Price, 1932-1984. 4 boxes

K/PP 4/8/12- 1929-1990
27

Reprints of articles by colleagues of Price mainly on the study of atomic structure, including spectroscopy, the absorption spectra of various compounds, electron beams, rotational analysis, photoionization, electronic resonance and configuration and bond and dissociation energies. 16 boxes

K/PP84/9: Lecture slides, [1945-1990]

K/PP84/9/1 [1945-1990]

Glass and other photographic slides used in lectures and demonstrations, [1945-1990]. 1 box.

K/PP84/9/2 [1945-1990]

Glass and other photographic slides used in lectures and demonstrations, [1945-1990]. 1 box.