# William Reginald Stephen Garton 1912 - 2002

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## **Professor of Spectroscopy**

Born 1912, 1933 - 1936 BSc and ARCS Physics, Imperial College London, 1936 appointed demonstrator, begins research in spectroscopy under Herbert Dingle. Served with RAF during World War Two, returned to Imperial afterwards and made his name as leading expert on spectra of atomic vapours on the Schumann region. 1946 – 1954 appointed Lecturer in Physics, 1954 appointed Senior Lecturer, 1957 appointed Reader, 1958 Awarded DSc., 1964 appointed Professor of Spectroscopy, 1969 elected FRS, 1979 Senior Research Fellow, died 2002.

The collection comprises of research notebooks of W.R.S. Garton for the years 1937, 1949, 1959 and 1973 and one portrait photograph.

#### GRTNS001 **Research Notes**

A small number of research notebooks from the years, 1937, 1949, 1959 and 1973

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### Research Notes on Spectroscopic Quantitative Analysis, Astrophysics Department, RCS

Date Range 1936 - 1937

#### Quantity

Box Number 01

Control

#### Details

W.R.S. Garton, BSc ARCS, Record of work performed in spectroscopy laboratory of astrophysics department, of the Royal College of Science during the session 1936 0 37, on Quantitative Spectroscopic Analysis Contains the following formats

Retention Archival. Access Open Source William Reginald Stephen Garton

Accession Details: GRTN2004/0001 Inventory ID: GRTN00001

002

#### **Research Notes Colouration of Quartz**

Date Range 1937 - 1939 Box Number 01 Quantity Control **Details** Also contains loose page notes on work carried out between 1937 - 1939 Contains the following formats Retention Archival. Access Open

Source William Reginald Stephen Garton

Accession Details: GRTN2004/0001 Inventory ID: GRTN00002

003 Laboratory Notebook [?] Date Range 1937 Box Number 01 Quantity Control Details Red soft back exercise book containing handwritten laboratory notes. Most pages have been scored through. Contains the following formats Retention Archival. Access Open Source William Reginald Stephen Garton Inventory ID: GRTN00003 Accession Details: GRTN2004/0001

#### W.R.S. Garton - Inventory Report

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Notebook: Researches II, 1949 Date Range 06/01/1949 - 29/05/1949 Box Number 01 Quantity Control Details Green hardback exercise book with red spine. Initial expts. On absorption by excited Hg. Absorption by Al vapour in Schumann Region. Ae ore spectra in Schumann Region. Construction and Trial of Vacuum Furnace. Some loose page notes at back. Contains the following formats Access Open Retention Archival. Source William Reginald Stephen Garton Accession Details: GRTN2004/0001 Inventory ID: GRTN00004 Notebook: Researches III, 29/05/49 Date Range 29/05/1949 - 29/07/1949 Box Number 01 Quantity Control Details Green hardback exercise book with red spine. AI emission and absorption contd. From Book II. Trials a use of vacuum Furnace AI emission plates on LiF 2 pages of loose page notes at front. Contains the following formats Retention Archival. Access Open Source William Reginald Stephen Garton Accession Details: GRTN2004/0001 Inventory ID: GRTN00005 Notebook: Researches IV, 1948-49 (LiF spectrograph Bkll) Date Range 08/12/1948 - 22/11/1949 Box Number 01 Quantity

Green hardback exercise book with red spine.

Source William Reginald Stephen Garton

General Research Book 1) 2 pages of loose page notes. Contains the following formats

Inventory ID: GRTN00006

LiF Spectrograph Trials. Decr. 1948 - Novr. 1948. (For previous work see

Retention Archival.

Accession Details: GRTN2004/0001

006

Control Details

Access Open

005

## W.R.S. Garton - Inventory Report

007	Notebook. [Research 1959]	
	Date Range 1959	
	Quantity	Box Number 01
	Control	
	Details	
	Various groups of loose notes on work conducted during 1959 Contains the following formats	
	Access Open Retention Archival.	
	Source William Reginald Stephen Garton	
	Inventory ID: GRTN00008 Accession Details: GRTN2004/0001	
	Inventory ID. Or (Invedede Construction Detailed Co	
008	Notebook. Dr K Codling, Physics Dept, Imperial College, London, SW7	
	Date Range 1959	
	Quantity	Box Number 01
	Control	
	Details	
	Various groups of notes on work conducted during 1959. Many are carbon copy notes of those found in GRTN00008. This notebook has been divided into sections on Barium, Strontium, General, and CopperAu, MgCa. There is another	
	untitled section of notes not in Garton handwriting.	
	Contains the following formats	
	Access Open Retention Archival.	
	Source William Reginald Stephen Garton	
	Inventory ID: GRTN00009 Accession Details: G	RTN2004/0001
009	Computation Book, WRS Garton	
	•	
	Date Range 1973	Box Number 01
	Quantity	Dox Number 01
	Control	
	Details Handwritten notes taken at Harvard Summer 197	3, Experiments on Schumann
	Region Absn of Sr and Ba vapours.	
	Loose pages of notes inserted in the front along v article.	with a related photocopies of an
	Contains the following formats	
	Access Open Retention Archival.	
	Source William Reginald Stephen Garton	
	Inventory ID: GRTN00007 Accession Details: G	GRTN2004/0001

ar  W.R.S. Garton - Inventory Report

## GRTNS002 Photographs

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b/w Portrait Photograph of WRS Garton
Date Range
Quantity Box Number 01
Control
Details
5 copies
Contains the following formats
Access Open Retention Archival.
Source William Reginald Stephen Garton
Inventory ID: GRTN00010 Accession Details: GRTN2004/0001