

GB 1706 FERG

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FERGUSON, William Bates (1853-1937)

Papers of W.B. Ferguson / W.B. Ferguson, London.  
ca. 1899-1936  
3 boxes.  
38 x 28 x 13 cms.

Correspondence and notes on the Ferguson density meter, Ferguson's slide rules for calculating times of Development for photographic negatives; correspondence, notes and minutes of meetings of the British National Committee for standardisation of Photographic Sensitometry; Reports and communications of the British Photographic Research Association; Correspondence and articles relating to the Hurter and Driffield memorial volume and their work on photographic sensitometry.

W.B. Ferguson was born in Manchester and took a degree at Oxford in 1874 in Natural Science. In 1882 he was called to the Bar and made Queen's Counsel in 1900 but had to retire shortly afterwards because of his wife's ill health.

He joined the Royal Photographic Society in 1895 and was made a Fellow in 1900 following the publication of his paper on copper toning.

For the sake of his wife's health Ferguson moved to Switzerland and established a small laboratory in Arosa to study photographic development times. He published his first paper on this subject in 1905 "Control of the Development Factor at Various Temperatures". After his return to England in 1906 he became interested in the measurement of photographic density and developed the Ferguson Read reflection density meter in 1934. He was involved in the British National Committee for standardisation of Photographic Sensitometry and was invited to produce the Hurter and Driffield memorial volume of the Journal of the Royal Photographic Society.

The papers of W.B. Ferguson were donated to the museum and transferred to the Library in 1982. Little is known of their provenance.

There are no restrictions on access to the Collection. The usual regulations apply regarding photocopying, photographing and reproducing items from the collection.

List Available

Archives: FERG

PHOTOGRAPHIC SENSITOMETRY / PHOTOMETRY.

Inv No. 1985-1306  
ScM Library Room 411  
No Exhibition Record  
No Conservation Record.

Science Museum LibrarySouth Kensington, London

The Papers and Pamphlets of W.B. Ferguson 1853-1937.

Archives: FERG

William Bates Ferguson worked on sensitometry, negative density measurement and the calculation of development times for film. He was involved in the British Sensitometry Standardisation Committee and was invited to produce the Hurter and Driffield memorial volume of the Journal of the Royal Photographic Society.

Ferguson was born in Manchester in 1853 and took a degree at Oxford in 1874 in Natural Science.

In 1882 he was called to the Bar and made Queens Counsel in 1900 but had to retire shortly afterwards because of his wife's ill health.

He joined the Royal Photographic Society in 1895 and became a Fellow in 1900 following the publication of his paper on Copper Toning.

He established a small laboratory in Arosa Switzerland to study development times and published his first paper on this subject in 1905 "Control of the Development Factor at Various Temperatures". After his return to England in 1906 he became interested in the measurement of photographic density. He produced his New Bar Photometer for Measuring Densities by Non Parallel Rays in 1912. This was followed by the Ferguson Renwick Bar Photometer in 1914 and the Ferguson Renwick Benson Photometer in 1924. A modified FRB density meter working with constant illumination appeared in 1927 and the Ferguson Read reflection density meter was worked out in 1934.

boxes]

## W.B. Ferguson Collection. Archives: FERG

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  2. Times of Development and Times of Appearance for negatives, notes, graphs and slide rules.
3. Ferguson's connection with the British Sensitometry Standardisation Committee 1925-1937.  
Correspondence, Reports and Minutes of Meetings
4. Ferguson's connection with the British Photographic Research Association. Reports, Printed communications and correspondence in Ferguson's possession.
  1. Memorandum and Articles of Association
  2. Annual Reports
  3. Communications of the BPRA Laboratory
  4. Set of [confidential] reports and literature summaries issued by the Director of Research of the BPRA
  5. Correspondence about the discontinuance of the BPRA grant.
5. Hurter and Driffield material presumably used by Ferguson in the compilation of the Hurter and Driffield memorial volume of the Journal of the Royal Photographic Society.
  1. Hurter and Driffield Bequest Manuscript Indexes
  2. Articles by Hurter and Driffield published as off prints
  3. Manuscript Note [by F Hurter]
  4. Printed articles about Hurter and Driffield.
  5. Copies of the Abney/Hurter and Driffield Correspondence on the accuracy of their respective photometers.
6. Miscellaneous offprints concerned with various aspects of photography.
  1. Periodicals
  2. Booklets

1. W.B. Ferguson's Personal Correspondence and Family Papers.1./1. Correspondence.

1. [1887?] Jan 4th [Letter from] 20 North Great George's Street.,  
Dublin. M.C. Ferguson [to] Mr. Ferguson [WB]  
3 Plowden Buildings, Temple, London EC.  
Thanking for photograph of Ferguson in  
QC gown and enclosing copy of the Archbishop's  
address delivered at St. Patrick's  
Cathedral at the funeral of Sir Samuel  
Ferguson 1886 August.
2. 1909 Nov 27 [Letter from] the Northern Whig Office, Belfast,  
Joseph L.G. Fisher [to] Ferguson [WB]  
Suggesting a commemoration of the  
work of Sir Samuel Ferguson, "your  
illustrious relative".
3. 1912 Feb 14 [Letter from] 37 Bradenell(?) Road,  
Hyde Park, Leeds, Gerald Ferguson to  
Millie  
Announcing the death of father on Jan 31.
4. 1933 April 10 [Letter from] 22 Bloomsbury Street, London,  
G. Graghigan(?) [to] Mr. Ferguson [WB]  
complaining of the weather and mentioning  
the rule for publication in the British  
Journal of Photography
5. 1933 April 26. [Letter from] 1 Hereford Retreat, Peckham  
SE15 [to] Mr. Ferguson [WB] 48 Compagne  
Gardens, London NW16.  
Giving news of his injured foot after a  
fall and thanking Ferguson for the kindness  
shown to him.

1./2. Family items

1. 1853 Aug Engraving: Mrs. Ferguson's Hotel Bridge of Turk  
W.S. Bonet Aug 1852/W. Banks sc Edinr.  
[Heavily foxed]
2. 1853 Sept 20 Certificate of Baptism of William Bates,  
son of Pearson Biggs and Harriet Ferguson  
of Ardwick.  
Born 1853 Aug 10, Baptised 1853 Sept 20.
3. 1860 Jan 28 Certificate admitting Pearson Biggs Ferguson  
[WB's father] to be lieutenant in the 33rd  
Lanchashire Rifle Volunteers

4. 1890-1893 Notebook entitled "Photographs 1890-1891, 1892, 1893" containing a list of Photographic prints of Italian subjects in the collection of W.B. Ferguson.
5. [1903?] Printed list of Pupils of Dr. Watts who won distinctions in Physical Science 1868-1902 Includes W.B. Ferguson in 1871.
6. 1905 April 24. Invitation from Mr. and Mrs. W.B. Ferguson to the marriage of their daughter Roma to Sydney Read at St. James' Church, West Hampstead NW6. Includes Order of Service.
7. 1908 Oct 10. Burial Plot Number Card for Hugh Ferguson issued from Mount Jerome Harolds Cross, Dublin.
8. nd. Newspaper clipping announcing the death of Lady Ferguson wife of Sir Samuel Ferguson.
9. 1896-1912 The clan Ferguson [3 items].

#### 1./3. Photographs

1. nd. Sir Samuel Ferguson.
2. nd. W.B. Ferguson in OC gown.
3. nd. Tomb of Sir Samuel Ferguson 5 prints.
4. nd. Negative of 3 men and 1 woman curling in Arosa Switzerland.

#### 1./4. Printed Biographical Details.

1. 1928 May 19. Published in The New Photographer page 178 Biographical details of W.B. Ferguson. No. 4 in the second series of articles on Photographic Personalities
2. 1937 OCT 16. Published in The Law Journal vol LXXXIV page 259 Obituary of Mr W.B. Ferguson, K.C.
3. 1937 Dec Reprinted from the Photographic Journal vol LXXVII p687-691 Obituary of William Bates Ferguson, K.C. M.A. (Oxon) F.I.C. Hon F.R.P.S. by S. Read with letter from Christchurch Oxford T. Armstrong to Mrs. Read 1951 March 4 returning article by S. Read on W.B. Ferguson

2. Ferguson's Work on Photography

## 2./1. The Ferguson Density Meter.

Drawings, papers and correspondence relating to the Ferguson Density Meter - chiefly the Ferguson Read Reflection Density Meter of 1934.

1. nd [4 drawings in ink on foolscap graph paper of the] Density Meter V
  - a) Plan, Side and End Elevations of Prism and Sight Tube Box.
  - b) End Elevation and Side Elevation of the Box showing how the card is secured - Double page.
  - c) Plan and Side Elevation of the Pressure Bar.
  - d) Elevation showing rebates and hole on side of Box.
2. 1924 Jan 15 [Letter from] Fairbrother and Bowes Ltd., 9 Farringdon Avenue, London EC4  
[to] W.B. Ferguson  
Enclosing an estimate for making a second Ferguson Density Photometer
3. 1932 Feb 6-7 [Draft paper, mss] Reflection Densities [signed] W.B. Ferguson Rome 6 Feb 1932 with a postscript 7 Feb 1932.  
10 pages. includes diagram of the Ferguson Read Density Meter.
4. 1932 Feb 9 Notebook containing 3 pages of manuscript notes [by WB Ferguson] on Calculations re (Ferguson-Read) Reflection Density Meter headed "Roma V" - Pensione Pirri, Palazzo Moroni, 9 February 1932".
5. [1935 June]. Manuscript Notes on Sensitometry [by WB Ferguson] 8p.  
With a copy of the IX Congress International de Photographie Scientifique et Appliquee, Resumes de Memoires parvenus au Comite d' Organisation avant le 12 Juin 1935, offert aux membres du Congres par la Revue Science et Industries Photographiques  
Includes article by H. Tardy of Jobin and Yvon on Sensitometre automatique a eclairement variable..

2./2. Times of Development and Times of Appearance for negatives.  
Ferguson's notes, graphs and slide rules for calculating Times of Development.

1. nd [3 typed and 1 mss copy entitled] Ferguson's Development Calculator, A Slide Rule for Times of Development at Various Temperatures. 2p.
2. nd [Two graphs in folder marked] lantern Slides [showing]  
a) variation of speed with range in the development of photograph plates.  
b) Table of products of various Watkins Factors and various times of Appearance to save Time of Development.
3. nd Five home made slide rules [devised by WB Ferguson] for calculating Times of Development and Times of Appearance for photographic images.
4. 1925 Aug 8 [Letter from] 12 Irton Road, Southport, D.E. Benson [to] W.P. Ferguson 48 Compayne Gardens, South Hampstead, London NW6  
Enclosing and discussing 4 photographs of Benson's exposing machine.



### 3. The British Sensitometry Standardisation Committee 1925-1937

WB Ferguson was a member of the British Sensitometry Committee formed to investigate and recommend standards for the determination of the sensitivity of commercial photographic negative materials. His papers contain copies of letters and reports produced by this committee.

1. 1925 May 8           Uncorrected Proof p47-49  
Report of the Conference on the Standardisation  
of Plate Testing Methods.  
Stamped Harrison + Sons Ltd, Printers,  
St. Martins Lane
2. 1925 Nov 17       [Letter typed from] Royal Photographic Society  
35 Russell Square London WC1, Olaf Bloch  
[to] WB Ferguson 48 Compayne Gardens,  
S. Hampstead NW6.  
Discussing suggested changes in  
standardisation of plate testing methods
3. 1926 Jan 12       [Letter typed from] Royal Photographic Society  
35 Russell Square, London WC1, Olaf  
Bloch [to] WB Ferguson 48 Compayne  
Gardens S. Hampstead NW6  
Enclosing American Committee's report on  
standardisation
4. 1926 March 5     [Letter typed from] Royal Photographic Society  
35 Russell Square, London WC1, Olaf  
Bloch [to] Sir [WB Ferguson],  
Enclosing Professor Fabry's criticism  
of the American Committee's report and Mr  
Guild's report on the transmission of filters  
for standardisation purposes,  
with 6 diagrams.
5. [1931]            Report of the British National Committee  
for Standardisation of Photographic  
Sensitometry 5p. Foolscap typed.
6. 1932 Feb 27     [Letter typed from] British National Committee  
for the Standardisation of Photographic  
Sensitivity, S.O. Rawling [to] Sir  
[WB Ferguson]  
Enclosing minutes of last meeting and  
a draft report on the German proposals for  
a standardised commercial method of  
measuring speed.
7. 1932 Feb 15     [Copy typed of] minutes of meeting of British Committee  
for Standardisation of Sensitometry

8. [1932 March] Report of the British National Committee for standardisation of Photographic Sensitometry on proposals for a standard method for the determination of the sensitivity of commercial photographic negative materials. 4p. Typed (a 2nd copy).
9. 1934 July 10. [Letter typed from] Eastman Kodak Co. N.Y. Walter Clark [to] W.B. Ferguson 48 Compayne Gardens, South Hampstead NW Has read article by Ferguson on DIN speed marking for plates and film in the British Journal of Photography and is enclosing translation of German Standards Sheet DIN4512 of 1934 Jan together with the original. Includes article by WB Ferguson on the DIN speed marking for the Plates and Film.
10. 1934 July 31. [Letter typed from] Kodak Ltd, Middlesex E.R. Davies [to] WB Ferguson 48 Compayne Gardens, South Hampstead NW. Enclosing copy of letter sent to Editor of the BJ and dealing with the criticism of the DIN system raised by Baines and Moore
11. 1935 Feb 28. [Copy, typed, of] Agenda for meeting of the British National Committee for Standardisation of Photographic Sensitometry to be held on March 20.
12. 1935 Mar 8 [Letter typed copy from] Royal Photographic Society 35 Russell Square, London, S.O. Rawling [to] Mr Ferguson [WB] enclosing translation of the specification of the DIN system relating to the testing of negative material for pictorial photography and estimation of light sensitivity
13. 1935 Mar 9. [Letter, typed copy, from] Royal Photographic Society 35 Russell Square, London, S.O. Rawling [to] Mr Ferguson [WB] Asking for suggestions of points to be considered in view of German committee having introduced the DIN system for commercial testing of photographic materials.
14. 1935 Mar 11 [Typed copy of] points raised by British Sensitometry Committee on the DIN 4512 Specification 2p.

- 3/
15. 1935 Mar 30 [Letter typed from] Royal Photographic Society  
35 Russell Square, London, S.O. Rawling  
[to] WB Ferguson, 48 Compayne Gardens,  
South Hampstead NW6  
Enclosing minutes of meeting held on  
Wednesday March 20.
  16. 1935 April 17. [Letter, typed copy, from] Royal Photographic  
Society, [to] [WB Ferguson]  
enclosing report of a discussion of the DIN  
Specification at meeting of March 20
  17. 1935 May 14 [Note, Typed copy from] Royal Photographic  
Society [to WB Ferguson]  
Enclosing minutes of meeting held May 2,  
notes on Report of Discussion on DIN of March 20,  
and notice of proposals to be put before  
[International] Congress by Poland and Holland
  18. 1935 May 28. [Note, Typed copy, from] Royal Photographic Society  
S.O. Rawling [to WB Ferguson]  
Announcing meeting of committee on June 6.
  19. [1935 May 31] [Copy, typed, of] an examination of the  
alternative proposals by GS Moore and  
H Baines for the determination of  
photographic speed. 5p.
  20. 1935 June 15 [Letter, typed, from] Royal Photographic Society  
35 Russell Square, London, WC1, SO  
Rawling [to] WB Ferguson, Hotel Baren,  
Baden, Aargenau, Switzerland.  
Enclosing draft of proposals to be made on  
behalf of the committee at the IX International  
Congress of Photography.
  21. 1935 Resolution of the IX Interantional Congress  
on the Sensitivity of Negative Photographic  
Materials, typed 4p
  22. 1936 Jan 31. [Note, typed copy, from] Royal Photographic Society  
SO Rawling [to WB Ferguson]  
Announcing meeting of the British Sensitometry  
Committee on Feb 13 and enclosing German report  
on the British Committee's recommendations  
and a letter from R. Luther of the German  
Committee
  23. 1936 March 27 [Note, typed copy, from] Royal Photographic Society  
S.O. Rawling [to] Sir [WB Ferguson]  
Enclosing draft minutes of a committee meeting  
of Feb 13 and asking for comments.

24. 1936 April 18 [Note, typed copy, from] Royal Photographic Society  
S.O. Rawling [to WB Ferguson]  
Advising of meeting on April 30 and  
enclosing minutes of meeting held on Feb 13 and  
a copy of a report on a conversation between the  
secretary of the British Sensitometry Committee and  
Mr. Good of the British Standards Institution as to  
setting up a fully representative body for dealing  
with photographic industry sensitometry.
25. 1936 April 30 Agenda, [typed copy] for British Sensitometry  
Committee meeting on April 30
26. 1936 May 7 [Note, typed copy from] Royal Photographic Society  
SO Rawling [to WB Ferguson]  
Enclosing draft copy of suggested letter to the  
Council on the BSI proposals for acceptable  
commercial standards
27. 1936 Dec 21. [Letter, typed copy, from]  
Associated Photographic Plate and Paper  
Manufacturers, Cassio Phgotographic  
Paper Co., Ltd., Cassio Bridge, Watford, Herts.  
Edward Smith [to] [SO Rawling] Royal  
Photographic Society, 35 Russell Square, London  
Expressing views about the proposed commerical  
application of a sensitometry system.

28. 1936 Dec 29 [Letter, typed copy from] Royal Photographic Society  
S.O. Rawling, [to] WB Ferguson, 48 Compayne  
Gardens, Hampstead NW.  
Advising of meeting on Jan 18 to discuss the letter  
written by Associated Photographic Plate and  
Paper Manufacturers and the views of the  
American Sensitometry Committee on the  
International Standards Association
29. 1937 Feb 9 [Letter, typed copy, from] Royal Photographic  
Society, 35 Russell Square, London JW Glassett  
[to] WB Ferguson.  
Enclosing minutes of meeting held on Jan 18,  
copies of proposals on the ISA and report on the  
British Photographic Manufacturers and  
Standardisation
30. 1937 Feb 11 [Letter, typed copy,] from Royal Photographic Society  
JW Glassett [to] Mr Ferguson [WB]  
Enclosing copies of the BSI pamphlets numbers  
2572 and 2573 defining the unit of Candle Power  
and the Photometric Scale
31. 1937 Feb 15 [Letter, typed, from] Elliott and Sons Ltd., Barnet,  
Herts, [to] WB Ferguson, 48 Compayne Gardens, South  
Hampstead, thanking him for comments on the  
BSI papers.
32. 1937 April 1 [Notice, typed copy, from] Royal Photographic Society  
JW Glassett [to WB Ferguson]  
Enclosing copies of letters from A Huber the ISA  
General Secretary to the National Standardising  
Bodies. 1936 Sept 29 and 1937 March 15 and Agenda  
for meeting on April 7th. copy

4. British Photographic Research Association, Reports and correspondence in the possession of WR Ferguson.

- 4./1. 1918 May 5 Memorandum and Articles of Association Registered 1918 May 5.
- 4./2. 1923-1924 Copies of the BPRA Annual Reports.  
1927-1928
- 4./3. Communications of the British Photographic Research Association Laboratory.  
Nos 1-2, 4-6, 8-14, 16-35, 39-47, 50, 54-59, 61-62, 68-70, 72-73.
1. 1919 April 29 Reprinted from the Transactions of the Faraday Society Vol XV Part I Contrast and Exposure in X-Ray Photographs through Metals by R.E. Slade. 8p
2. 1919 July Reprinted from the Philosophical Magazine vol xxxviii  
The Fundamental Law for the True Photographic Rendering of Contrast by Alfred W. Porter and R.E. Slade p187-197
3. missing
4. 1920 March 9 Lecture deleivered before The Royal Photographic Society of Great Britain, published London  
Photomicrography in Photographic Research by G.I. Higson 6p plus 10 figs.
5. 1920 April Reprinted from the Photographic Journal  
The Photometric Constant by GI Higson 3p.
6. 1920 Reprinted from the Proceedings of the Royal Society A, vol 97  
A New Method of Spectrophotometry in the Visible and Ultra violet and the Absorption of light by Silver Bromide by RE Slade and FC Toy p181-190.
7. missing

8. 1920 June Reprinted from the Photographic Journal 1920  
A Simple Non-Intermittent Exposure Machine  
by G.I. Higson
9. 1920 Reprinted from the Proceedings of the Royal  
Society, A, vol 98  
Photochemical Investigations of the  
Photographic Plate by RE Slade and  
GI Higson. p154-170
10. 1920 Dec Reprinted from the Philosophical Magazine  
Vol XI  
The Absorption of Light by the Goldberg  
Wedge by F.C. Toy and J.C. Ghosh.
11. 1921 Jan Reprinted from the Photographic Journal  
The Action of Light on the Photographic  
Plate by GI Higson 10p
12. 1921 Feb Reprinted from the Photographic Journal  
The Wedge Method of Photometry  
by GI Higson 4p.
13. 1921 April Reprinted from the Photographic Journal  
A Monochromatic Illuminator of Special  
Design by FC Toy 6p.
14. 1921 March Reprinted from the Photographic Journal  
The Action of Light on the Photographic  
Plate, Part II the under-exposure period  
by GI Higson. 9p.
15. 1921 May Reprinted from the Photographic Journal  
The History of Persulphate Reduction  
by GI Higson 8p
16. missing
17. nd. Note on the Goldberg Wedge by F.C. Toy. 1p.
18. 1922 Jan Reprinted from the Photographic Journal  
Sepia Toning with Colloidal Sulphur  
by S.O. Rawling 3p.
19. 1921 Dec. Reprinted from the Photographic Journal  
The Sensitivity of Silver Halide Crystals  
which are Geometrically Identical by  
F.C. Toy 7p
20. 1921 Reprinted from the Transactions of the  
Chemical Society Vol 119, 1921.  
The Reaction between Persulphates  
Silver by Geoffrey Isherwood Higson  
p2048-2055

21. 1922 Feb Reprinted from Photographic Journal  
Potassium Persulphate as a Reducer  
by GI Higson. 12p
22. 1922 Aug Reprinted from Philosophical Magazine  
vol xlii  
On the Theory of the Characteristic Curve of  
Photographic Emulsion by F.C. Toy  
p352-371
23. 1922 July 31 Reprinted from the Journal of the Society of  
the Chemical Industry Vol XLI  
Electric Heating and Controlling Apparatus  
for a Small Thermostat by S.O. Rawling.  
7p
24. nd. Grain Structure v Light Quanta in the  
Theory of Development by W Clark 6p
25. 1923 Feb Reprinted from Photographic Journal  
The Factors which determine Gamma  
Infinity by GI Higson and FC Toy 7p
26. 1922 Reprinted from Transactions of the Chemical  
Society vol 121  
The Isoelectric Condition of Gelatin  
by Sidney Owen Rawling and Walter  
Clark p2831-2843
27. 1923 April Reprinted from the Philosophical  
Magazine vol xlii  
On the Theory of the Characteristic Curve  
of Photographic Emulsion by F.C. Toy  
p716-726
28. 1923 Reprinted from the Transactions of the  
Chemical Society vol 23  
Determination of the Isoelectric Point of  
Gelatin. A Criticism of Pattern and  
Kellems's Method by Thomas Slater Price  
p410-412
29. 1923 May Reprinted from the Photographic Journal  
The Reduction Centres of Silver Bromide  
Emulsion by Walter Clark.  
8p
30. 1923 Nov Reprinted from the Transactions of the  
Faraday Society No 56 vol XIX part 2  
The Mechanism of the Latent Image  
Formation by F.C. Toy  
6p



31. 1923 Nov Reprinted from the Transactions of the Faraday Society No 56 vol XIX Part 2, The Physical Chemistry of the Vehicle and of the Emulsion by T. Slater Price 5p
32. 1923 Nov Reprinted from the Transactions of the Faraday Society No 56, vol XIX Part 2, On the Sensitivity of a Silver Bromide Emulsion by Walter Clark 5p
33. 1924 Feb Reprinted from the Photographic Journal On the Sensitivity of the Silver Halide Grains of a Photographic Emulsion by Walter Clark 7p
34. 1923 Nov 23 Reprinted from The British Journal of Photography Sodium Arsenite and the Plate by Walter Clark 4p
35. 1923 Dec 14. Reprinted from The British Journal of Photography Theory of the Action of Hydrogen Peroxide and Ozone as Fogging Agents by Walter Clark 3p
- 36-38. missing.
39. 1924 Nov Reprinted from the Phil Mag vol xlvi Investigatations on the latent photographic Image. - Part 1 the Relation between the Light Frequency and Number of Developable Centres by F.C. Toy and H.A. Edgerton p947-961

40. 1924 Sept. Reprinted from the Journal of Scientific Instruments vol 1 No 12  
A New Selenium Cell Density Meter  
by F.C. Toy and S.O. Rawling  
p362-365. [2 copies]
41. 1925 Feb Reprinted from Photographic Journal  
Standard Development by W Clark  
14p
42. 1925 Feb Reprinted from Photographic Journal  
Exposure Mechanism by S.O. Rawling  
6p
43. 1925 May Reprinted from the Journal of Physical Chemistry vol XXIX  
The Behaviour of Silver Iodide in The Photo-Voltaic Cell. A criticism  
by T. Slater Price  
p557-563
44. 1925 June Reprinted from the Phil Mag vol xlvix  
The Use of Commercial Plates in Research on the latent Photographic Image by  
F.C. Toy  
p1104-1112
45. 1925 Reprinted from The British Journal of Photography LXXII  
The Action of Arsenites on the Photographic Plate by Walter Clark  
3p
46. 1925 Feb Reprinted from the Photographic Journal  
Note on the Function of Gelatine in Development by T. Salter Price  
2p
47. 1925 Reprinted from the Photographic Journal vol LXV, p164-177.  
Standardisation of Photographic Density Measurements by F.C. Toy  
14p

- 48-49. missing
50. 1926 April Reprinted from the Journal of the Chemical Society  
The Electrometric Titration of Halides  
by Walter Clark.  
p749-775
- 51-53. missing
54. 1926 April Reprinted from The Photographic Journal  
vol LXVI  
A Note on the Arrest of Development in  
Plate Testing by S.O. Rawling  
p187-189
55. 1926 May 28 Reprinted from The British Journal of  
Photography  
The Action of Light on Silver Bromide  
Emulsions and the role of the sensitive  
nuclei by F.C. Toy  
p295-298
56. 1926 July Reprinted from The Photographic Journal  
vol LXVI  
Thiocarbamide Fog and a suggested  
explanation of Waterhouse Reversal  
by S.O. Rawling  
p343-351
57. 1926 Nov Reprinted from The Photographic Journal  
vol LXVI  
The Sensitivity of Photographic Emulsions  
Part 1 by SO Rawling and JW Glassett  
p495-504
58. 1927 Feb Reprinted from Phil Mag  
vol III  
The Photo-Electric Activity of the  
Silver Halides and Silver  
Sulphide by FC Toy,  
HA Edgerton and JOC Vick  
p482-495

59. 1927 Jan Reprinted from The Photographic Journal vol LXVII  
The Sensitivity of Photographic Emulsions Part II  
by SO Rawling  
p42-48
60. missing
61. 1927 March 4 Reprinted from the British Journal of Photography  
Note on the Fogging Action of Persulphate by W Clark  
p121-122
62. 1927 Apr 22-29 Reprinted from The British Journal of Photography.  
Oxidising Agents in the Study of Photographic Emulsions  
by W Clark  
p227-228 and 243-245.
63. missing
64. July Reprinted from the Photographic Journal vol LXVII  
Thiocarbamide as an impurity in Thiocyanates by T Slater Price  
and JW Glassett  
p329-330
- 65-67. missing
68. 1928 July Reprinted from The Proceedings of the Seventh International Congress of Photography and published by W Heffer and Sons Ltd., Cambridge 1929  
Researches on the Influence of Hydrogen Ion Concentration upon Photographic Sensitivity of Emulsions by SO Rawling  
p192-193

69. 1928 July            Reprinted from The Proceedings of  
the Seventh International Congress  
of Photography and published by  
W Heffer and Sons Ltd., Cambridge  
1929  
The Mechanism of the Latent  
Image Formation by F.C. Toy  
p14-34
70. 1929 Feb            Reprinted from the Photographic  
Journal vol LXIX  
The Sensitivity of Photographic  
Emulsions Part III by S.O.  
Rawling  
p83-89
71. missing
72. 1929 May 4         Reprinted from Nature.  
The Primary Process in the Formation  
of the latent Photographic Image  
by FC Toy and GB Harrison  
4p
73. 1930                Reprinted from the Proceedings of the  
Royal Society A, Vol 127  
Photo-conductance Phenomena in the  
Silver Halides and the latent  
Photographic Image by FC Toy and GB Harrison  
p613-637

4/4 [Confidential] Reports of the British Photographic Research  
Association Nos. 1-3, 5-8, 8A, 8B, 9-14, 15

- 1 nd Practical Methods of Testing Photographic Papers  
5p illus
- 2 nd The Iodine Absorption of Gelatin Solutions Studied by  
means of the Reaction between Potassium Persulphate and  
Potassium Iodide 8p illus
- 3 nd Setting and Melting point apparatus for Gelatins  
4p illus
- 4 missing
- 5 nd Electromagnetic Method of Determining Concentration  
of Hydrogen Ion 9p illus
- 6 nd Viscosity Measurements 4p illus
- 7 nd The Effect of Heating upon the Viscosity of Gelatin  
Solutions 10p illus
- 8 1922 Nov 10 Distribution of Nitrogen in Gelatins 12p
- 8A [1922] The Titration of Gelatin Solutions with  
Hydrochloric Acid 3p
- 8B 1923 March Diffusible Nitrogen of Photographic Gelatins  
3p
- 9 1923 March The Rate of Gelation of Photographic Gelatins  
A method of Comparison by means of Viscosity  
Measurements. 3p
- 10 1923 March Iodides of Mercury in Photography. 8p
- 11 1923 [March?] Some properties of Collodion Films. 10p
- 12 nd Colloidal Silver and the Photographic Image. 39p
- 13 missing
- 14 nd The Influence of the Absorption of Ions on the  
Photochemical Sensitivity of Silver Bromide. 12p
- 15 nd Jelly Strength of Gelatin. 12p  
[originally numbered]

4/5. Correspondence re the discontinuance of the British Photographic Research Association Grant

7 letters all 1927 March/April

- 1 1937 March 10 [Letter, pencil draft, ink draft and typed copy, from] Gower Street, London, W.B. Ferguson [to] My Lords and Gentlemen of the Advisory Council of the Department of Scientific and Industrial Research  
Putting forward arguments in favour of the continuation of the grant in aid. Signed by W.B. Ferguson and in Ferguson's hand A.W. Porter, Professor of Physics, University of London
- 2 1927 March 10 [Letter, typed, from] University of London, Gower Street. A.W. Porter [to] W.B. Ferguson, 48 Campayne Gardens, NW6.  
Enclosing documents for signature
- 3 1927 March 11 [Letter, typed copy from] British Photographic Research Association, C.M. Bishop [to] Sir. Department of Scientific and Industrial Research, London, SW1.  
Putting the case for the retention of the BPRA grant.
- 4 1927 March 26 [Letter, typed copy, from] Department of Scientific and Industrial Research, A.L. Hetherington [to] Secretary of British Photographic Research Association  
Advising of receipt of Mr. Bishop's letter and requiring further reports to be sent.
- 5 1927 March 27 [Letter typed from] British Photographic Research Association, 30 Russel Square, London WC1, H.F. Parkinson [to] Sir.  
Forwarding copies of letter sent to and reply received from the Department of Scientific and Industrial Research. [items 3 and 4]
- 6 1927 April 2 [Letter, MSS, from] University of London, University College, A.W. Porter [to] W [R] Ferguson  
Expressing hope of having some influence with the Department of Scientific and Industrial Research.
- 7 1927 April 5. [Letter, typed, from] British Photographic Research Association, Russell Square, London, WC1. H. Parkinson [to] W.B. Ferguson, 48 Campayne Gardens, NW.  
Returning copy of letter to D.S.I.R.

5 The Hurter and Driffield Material

## 5/1. The Hurter and Driffield bequest manuscript indexes [compiled by W.B. Ferguson]

- 1 1881-1897 Index to Hurter's notebooks
- 2 1879-1915 Index to Driffield's notebooks
- 3 1890-1906 Index to correspondence
- 4 nd Index to Dr F Hurter's manuscripts other than notebooks and correspondence

## 5/2. Articles by Hurter and Driffield published as off prints.

Numbers 1-13 are bound together in blue holder. Duplicates and nos 14 and 15 are loose

- 1 1889 April 30 The Actinograph by V.C. Driffield
- 2 1890 April 30 Reprinted from the Journal of the Society of the Chemical Industry  
An Instrument for the Measurement of Diffuse Daylight and the Actinograph, by F. Hurter  
[a 2nd copy]
- 3 1890 May 31 Reprinted from Journal of the Society of the Chemical Industry.  
Photochemical Investigations and a new method of Determination of the Sensitiveness of Photographic Plates, by F. Hurter and V.C. Driffield  
[a 2nd copy]
- 4 1890 August 28 Illife and Son, London.  
Measuring the Density of Negatives by F. Hurter and V.C. Driffield  
[3 more copies]



- 5 1891 Jan 31 Reprinted from the Journal of the Society of the Chemical Industry.  
The Sector and Grease Spot  
Photometers and their Results by F. Hurter and  
V.C. Driffield [a 2nd copy]
- 6 1891 Jan 19 Reprinted from Photography Feb 19 and 29.  
The Action of Light on the Sensitive Film by F. Hurter  
[a 2nd copy]
- 7 1891 Feb 28 Reprinted from Journal of the Society of  
the Chemical Industry.  
Relation between Photographic Negatives  
and their Positives by F. Hurter and  
V.C. Driffield [5 more copies]
- 8 1891 Feb 28 Reprinted from Journal of the Society  
of the Chemical Industry.  
The Sector and Grease Spot Photometers  
and their Results by F. Hurter and  
V.C. Driffield
- 9 1891 April 30 Reprinted from Journal of the Society  
of the Chemical Industry.  
The Sector and Grease Spot  
Photometers by F. Hurter

- 10 1891 [Reprinted from Photographic Arts Journal]  
Hurter and Driffield's Photochemical Investigations  
-unattributed
- 11 nd Reprinted from the British Journal of Photography  
The Principles Involved in Enlarging, by V.C. Driffield
- 12 nd Reprinted from the British Journal of Photography  
The Speed of Plates. Messrs Hurter and Driffield's  
Theory Practically Tested
- 13 1898 Reprinted from the Photographic Journal  
The Latent Image and its Development by F. Hurter  
and V.C. Driffield
- 14 1903 Jan Reprinted from Photographic Journal  
Control of the Development Factor and a Note on  
Speed Determination by V.C. Driffield
- 15 1903 Nov In The Photo Miniature A Magazine of  
Photographic Information edited by J.A. Tennant  
The Hurter and Driffield System being a brief  
account of their photochemical investigation by  
V.C. Driffield

## 5/3. Manuscript notes

- 1 nd Mss notes 3 pages [incomplete] entitled Density of Negatives, by F. Hurter, PhD

## 5/4. Printed articles written about Hurter and Driffield

- 1 1891 Apr 4 Reprinted from The Photographic Arts Journal Hurter and Driffield's Photochemical Investigations p10 [3 copies] unattributed  
Mss note "Mr F.F. Renwick is of the opinion that this reprint from the P.A.J. of 1891, p.208, 222, 238 should not be reprinted in the H and D memorial volume"
- 2 1898 May 31 Reprinted from Journal of the Society of the Chemical Industry No.5 Vol.XVII.  
The life and work of Ferdinand Hurter contributed by members of the Liverpool section of the Society of the Chemical Industry
- 3 1918 May 14 The first Hurter and Driffield Memorial lecture delivered before the Royal Photographic Society and published London 1918  
The early work of Hurter and Driffield by W.B. Ferguson
- 4 1929 Dec Printed in Camera Nr.6  
Article on Dr Ferdinand Hurter by Professor Dr. Erich Stenger of Berlin

5/5. Copies of the Abney/Hurter and Driffield correspondence consisting of 29 typed copy letters from W de W Abney to Dr Hurter or Mr Driffield. All foolscap, all concerning the controversy over the accuracy of their respective photometers for measuring the density of negatives

- 1 [1889]? June 1 [From] Science and Art Department, South Kensington [London] [to] Gentlemen. Very pleased with actinometer
- 2 1889 Nov 18 [From] Science and Art Department, South Kensington [London] [to] Sir. Stating he has not overlooked the fact that light is not a linear function
- 3 1891 March 29 [From] Hotel St. Romain 5 and 6 Rue St Roch, Ancne Rue du Dauphin, Paris [to] Dr Hurter Dicussing Hurter's apparatus and whether it gives the true density of a negative
- 4 1891 April 9 [From] Science and Art Dept, South Kensington, [London] [to] Mr Driffield. Thanking him for enclosure of Hurter's paper
- 5 1891 June 8 [From] Science and Art Department, South Kensington London [to] Dr Hurter. Suggesting an experiment to test Hurter's photometer
- 6 1891 Dec 13 [From] Hotel Royal, Rome [to] Mr Driffield Affirming all he has claimed to be measuring is the total light coming through a negative in contact printing
- 7 1892 Jan 16 [From] Bohun lodge, East Barnet, Herts [to] Dr Hurter and Mr Driffield. Stating the whole difference between us lies in whether optical density can be measured by the total amount of light which penetrates a negative and continuing the dispute about the Hurter and Driffield photometer

- 5/5
- 8 1892 Jan 19 [No address given to] Mr Driffield. Thanking for negatives which are to be measured and a report made
- 9 1892 Jan 25 [From] Willeslie House, 1 Wetherby Place [London] SW. [to] Mr Driffield. Sending measurements made on negatives confirming view that H and D photometer gives diminishing density results when moved further away from negative
- 10 1892 Jan 29 [No address given - to] Dr Hurter. Expressing disappointment that Hurter is convinced Abney's system of measurement is wrong
- 11 1892 Feb 10 [From] Willeslie House, 1 Wetherby Place [London] SW [to] Mr Driffield. Hoping to send results of measurements made on negatives on Friday
- 12 1892 Feb 17 [From] Willeslie House, 1 Wetherby Place, [London] SW [to] Mr Driffield. Sending results of negative measurements which show that Abney's meter consistently gives smaller density reading than does H and D's meter
- 13 1892 Feb 28 [From] Science and Art Dept. South Kensington [London] [to] Sir. Thanking for excerpt from photography and expressing desire to see the instrument at work
- 14 1892 Feb 29 [From] Willeslie House, 1 Wetherby Place [London] SW [to] Dr. Driffield. Expressing astonishment that Hurter and Driffield wish to discontinue the investigations into opacity of film measurements convinced that their measurements are correct
- 15 1892 March 3 [From] Science and Art Department, South Kensington [London] [to] Mr Driffield. Two letters on one sheet. One enclosing diagram of observations made of plates, one affirming Abney is continuing to test his photometer in every way

- 16a 1892 March 14 Science and Art Department, South Kensington [London] [to] Sir. Thanking for photographs
- 16b 1892 March 16 [From] Willeslie House, 1 Wetherby Place, [London] SW [to] Mr Driffield. Stating Professor Rucker is to test both Abney and H and D photometers
- 17 1892 March 20 Willeslie House, 1 Wetherby Place [London] SW [to] Mr Driffield. Enclosing sample of paper used for photometer
- 18 1892 March 30 Willeslie House, 1 Wetherby Place, [London] SW [to] Mr Driffield. Has made a copy of the Hurter and Driffield photometer and has discovered that changing the position of the negative alters the result obtained with it whereas the difference is immeasurable with his own photometer
- 19.1892 April 6 Science and Art Department, South Kensington [London] [to] Mr Driffield. Reiterating the fact that the position of the negative has a great deal to do with the difference in readings between H and D and Abney photometers
- 20 1892 April 9 [From] London [to] Mr Driffield re further experiments to test the relative merits of the two photometers
- 21 1892 April 11 Science and Art Department, South Kensington [London] [to] Mr Driffield. Suggesting experiment to be carried out by Driffield to test his photometer

- 22 1892 April 22 Science and Art Department, South Kensington [London] [to] Mr Driffield. Contention about the experiments to be carried out, materials and methods to be used
- 23 1892 April 26 Science and Art Department, South Kensington [London] [to] Sir. Expressing hurt at incourteous statements made in letters such as "wide of the truth", "pure assumption" etc.
- 24 1892 April 30 Willeslie House, 1 Wetherby Place [London] SW [to] Mr Driffield. Stating no wish to prove one right or wrong just wishing to establish the truth and including further results of experiments
- 25 1892 May 8 Willeslie House, 1 Wetherby Place [London] SW [to] Mr Driffield. Going to see Professor Rucker shortly for his comments on the respective photometers
- 26 [?] Aug 12 Willeslie House, 1 Wetherby Place [London] SW [to] Mr Driffield. His wife given birth and therefore he has not been in frame of mind for continuing their discussions
- 27 [?] Aug 12 Zermatt [to] Sir. Objecting to their correspondence being published
- 28 [?] Dec 5 In train [to] Dover to Dr Hurter and Mr Driffield. Denying that he has ever in any article said a word impugning in any way H and D's method of measuring densities
- 29 1898 Nov 3 Rathmore Lodge, Bolton Gardens South [London] SW [to] Mr Driffield. Thanks for sending reprint of paper published in the Photogrpahic Society - on death of Dr Hurter

6. Miscellaneous Booklets, Periodicals and Offprints in Ferguson's possession

6/1. Offprints of periodicals

- 1 1874 Sept Reprint from the [London, Edinburgh, and Dublin] Philosophical Magazine [and Journal of Science, VOL.48] On the Opacity of the Developed Photographic Image by Capt. Abney. 5p
- 2 1890 Dec.1 Article from The Camera, VOL.V no.55. Density of Negatives by Capt. W. De W. Abney p.136-138
- 3 1893 Feb., The Journal of the Camera Club, VOL.7  
Apr, Dec. nos. 80,83,91 with articles by W de W Abney
- 4 1904 Dec. Reprint from The Proceedings of the Royal Society, VOL.74 The Theory of Photographic Process: on the Chemical Dynamics of Development by S.E. Sheppard and C.E.K. Mees. p.447-473
- 5 1906 Reprint from The Transactions of the Chemical Society, VOL.89 The Theory of Alkaline Development, with notes on the affinities of certain reducing agents by Samuel Edward Sheppard. p.530-550
- 6 1911 Apr Photographic scraps, VOL.6 no.260. p.217-224 with article The Ilford Wedge by Chapman Jones p.217-200
- 7 1912 Reprint from The Proceedings of the Royal Society A, VOL.86 Contributions to the Study of Flicker Paper III by T.C. Porter. p.495-513 [annotated]
- 8 1914 Dec Journal of the Royal Society of Arts, VOL.63 no. 3239. p.85-100 with article Testing Pigments for Permanence of Colour by Sir W de W Abney p.85-94
- 9 1916 Reprint from Zeitschrift fur Wissenschaftliche Photographie, VOL.16 no.3 Sensito-metrische Apparate und deren Fehlerquellen by Arvid Odenchrants. p.69-91
- 10 1916 As above, VOL.16 n.4 Untersuchungen uber Intensitats - und Intermittenz - schwachung by Arvid Odenchrants p.111-200
- 11 1917 As above, VOL.16 nos.9/10 Was muss man von einer Theorie des latenten Bildes fordern? by Arvid Odenchrants p.261-268



- 12 1919 As above, VOL.18 no.10 Intensitats - oder Intermittenzkalen fur sensitometrische Zwecke. Einiges uber die Anwendungen derselben by Arvid Odencrants. p.209-220
- 13 1919 As above, VOL.18 no.10 Die Intensitats - schwachung fur Entwicklungspapiere by Arvid Odencrants. p.220-226
- 14 1918 Apr Reprinted from Nordisk tidskrift for fotografi En intensitetssensitometer (Forberedande meddlande) by Arvid Odencrants. 4p
- 15 1918 May As above. Huru inverker Ijusstyrkan vid kopieringen av gasljuspapper m.m.? by Arvid Odencrants. 2 pp
- 16 1920 Jun.30 Reprint from the Journal of the Society of Chemical Industry, VOL.39 no.12 Hurter Memorial Lecture Photographic Images - visible and invisible by F.F. Renwick. 8p
- 17 1920 Sept.17 Journal of the Royal Society of Arts, VOL.68 no.3539 p.695-706 with article A Photographic Research Laboratory by C.E. Kenneth Mees. p.695-705
- 18 1921 Nov.15 Scientific paper of the Dept. of Commerce Bureau of Standards, no.422. Studies in Color Sensitive Photographic Plates and Methods of Sensitizing by Bathing by Francis M. Walters Jr. and Raymond Davis. 12 pl. p.353-375
- 19 1922 Oct.18 As above, no.454 Action of Charred Paper on the Photographic Plate and a Method of Deciphering Charred Records by Raymond Davis. 2 pl. p.445-450
- 20 1922 Aug. Reprint form the Photographic Journal [VOL.46] Gelatin by T. Slater Price. 13 p. Lecture delivered 1922 April 25

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- 21 1923 Sept. As above, [VOL.47] The Relation of the Selective Absorption of Printing Colours to the Errors occurring in three-colour Photography by A.J. Bull. 20 p. lecture delivered 1923 May 22
- 22 1923 Mar-Apr. Reprint from Archives des Sciences Physiques et Naturelles, VOLS.4 and 5 Les Problemes Fondamenteux de la Plaque Photographique by Emile Muhlestein. 60p.
- 23 1924 Sept.5  
12,19 Journal of the Royal Society of Arts, VOL.72 nos.3746, 3747, 3748 with articles on Certain Fundamental Problems in Photography by T. Slater Price. p.725-736, 739-750, 753-763
- 24 1925 May 15 Reprint from the Journal of the Society of Chemical Industry. Publication no. 22 of British Launderers' Research Assoc. The Design, Construction, and Use of a Constant Humidity Room by R.G. Parker and D.N. Jackman. 23p
- 25 1925 Reprint from the reports of the progress of Applied Chemistry, VOL.9 1924, issued by the Society of Chemical Industry Photographic Materials and Processes by Walter Clark. 43p
- 26 1925 Apr. Reprint from the Photographic Journal VOL.65 (new series VOL.49). An Evaluation of the Light Scattered by Photographic Densities by A.J. Bull and H. Mills Cartwright. 4p
- 27 1925 Oct. Reprint from the British Journal of Radiology, VOL.21. The Investigation of the Movement of the Heart by the Use of the Slit Diaphragm and the Moving Film by Robert Knox. 17p. and 11pl. Papers read at IX International Congress of Radiology 1925 June and July 3
- 28 1925-1926 Reprint from the Transactions of the Optical Society, VOL.27 no.2. A Trichromatic Colorimeter Suitable for Standardisation Work by J. Guild. p.106-129

- 29 1926 Feb. Reprint from the Photographic Journal,  
VOL.66. The Basis of the Image in Photo-Lithography  
by E.L. Turner and C.D. Hallam. 2p
- 30 1929 Reprint from the Proceedings of the Seventh  
International Congress of Photography, July 1928.  
Modern Photo-engraving Screens by E.L. Turner. 3p
- 31 1929 As above. The Progress of Photogravure Etching  
by H. Mills Cartwright. 14p
- 32 1929 As above. A Method of Colour Correction by  
H. Mills Cartwright. 3p
- 33 1929 As above. Tone Rendering by Half-Tone Processes  
by A.J. Bull. 10p.
- 34 1929 As above. Report on Turbidity, with Special  
Reference to its Application in the Photographic  
Industry by F.C. Toy, E.R. Davies, B.H. Crawford and  
B. Farrow. 35p
- 35 1932 Mar.11 British Journal of Photography  
Paris Notes by L.P. Clerc referring to an  
automatic printer. p.149-150
- 36 1932 Apr 8 British Journal of Photography  
Practical Sensitometry by H. Baines.  
p.209-212
- 37 1932 Apr. Issue of proceedings of the British Kinematograph  
Society. No.17: Inherent Difficulties in the Measurement  
of Photographic Speed by E.R. Davies. 16p. Letter from
- 38 1934 Reprint from the Journal of the Textile Institute,  
Vol.25. A Photometer of Special Application to Routine  
Textile Measurements by R.E. Hampson and H.W. Richards.  
p.106-121 and 1pl. ESS test plate tints for launderers
- 39 1934 Jun.15 The British Journal of Photography, Vol.81  
no.3867 with article - A New Reflection - Density Meter  
by W.B. Ferguson. p.351-352
- 40 1935 June Reprint from the Journal of the Institute of  
Fuel. Gas Purification by H. Hollings and W.K. Hutchinson.  
12pp

## 6./2. Booklets and pamphlets

- 1 1854 Aug. 11 An Act to afford greater facilities for the Establishment of Institutions for the Promotions of Literature and Science and the Fine Arts and to provide for their better regulation. Victoriae Reginae Cap CXII. p.1178-1187
- 2 1914 Jun 19 Supplement to the British Journal of Photography. Photography Past and Present [unattributed]. pi-xxiv
- 3 1915 Bidrag Till Frugran om Fotogritisk fotometri. Akademisk Afhandling by Arvid Odencrants. p.155 illus. Published Uppsala 1915. Inscribed: To the Royal Photographic Society. With the author's compliments
- 4 1928 Aug Lantern Slides by B.T.J. Glover, p.80. Published London 1928. Inscribed: to Mr. W.B. Ferguson whose continued friendship I value so highly 25/9/28. B.T.J. Glover
- 5 nd Chemists' note book published by James A. Jobling and Co. Ltd., Sunderland, contains tables and data on pyrex glass, but otherwise unused
- 6 nd The Cadett Spectrum Plate for rendering correctly all color luminosities. The only plate on the market at present made by Cadett and Neal, Ashtead Surrey