

June 30, 1932.

PUBLICATIONS RELATING TO PHOTOGRAPHY

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PUBLICATIONS INCLUDED

This circular is intended to furnish references to the papers relating to photography which have been written by members of the Staff of the Bureau of Standards. These references are given in chronological order in two lists, one applying to the official Bureau of Standards publications, and the other to those appearing in outside journals. Both lists include, not only papers dealing directly with photography, but also a few where the photographic method has been applied to some problem in a novel or interesting manner.

BUREAU OF STANDARDS PUBLICATIONS

Circular C24 with supplements, gives a classified list of all the official Bureau of Standards publications together with a brief abstract of each. The significance of the letter or letters preceding the number of the paper is as follows:

- C = Circulars of the Bureau of Standards
- LC = Letter Circulars of the Bureau of Standards
- M = Miscellaneous Publications of the Bureau of Standards
- R = Simplified Practice Recommendations of the Bureau of Standards
- S = Scientific Papers of the Bureau of Standards
- T = Technological Papers of the Bureau of Standards
- RP = Research Papers of the Bureau of Standards (Superseding classes S and T starting in July 1928 and being papers originally published in the Bureau of Standards Journal of Research and available in the form of reprints.

TO OBTAIN GOVERNMENT PUBLICATIONS

The Bureau of Standards publications, if not out of print and excepting letter circulars, may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. The prices stated in this circular are those formerly charged but are subject to change. No figures are given for the latest papers. For these the price should be obtained from the Superintendent of Documents. (Postage stamps are not accepted.) Letter Circulars may be obtained free of charge from the Bureau of Standards, Washington, D.C. as long as available.

PUBLICATIONS OUT OF PRINT

Publications marked with an asterisk (*) are out of print but may be consulted at the leading libraries. A list of Government depository reference libraries is given in the Supplement to C24, Nov., 1930, pp. 14-21.

TO OBTAIN ARTICLES APPEARING IN OUTSIDE PUBLICATIONS

Articles by members of the Staff of the Bureau of Standards appearing in other than Government publications are listed separately. These publications may usually be found in the larger libraries or in some cases, obtained from the publishers. Reprints may, in a few cases, be obtained by applying directly to the authors.

LIST OF FEDERAL SPECIFICATIONS FOR PHOTOGRAPHIC MATERIALS

The following list is taken from the complete list of all Federal Specifications given in the Federal Standard Stock Catalogue, Section IV, revised to July 1, 1931. Copies of Federal Specifications may be purchased from the Superintendent of Documents, Washington, D.C.

Specification Symbol	Title of Specification	Original F.S.B.No.
G-M-111	Lantern slide mats	-
G-P-641	Paper negative preservers	-
O-M-571	Mono-Methyl-Paraminophenol Sulphate (supersedes U-M-191)	421
O-S-581	Sodium-Carbonate; granular (monohydrate crystals)	432
O-S-606	Sodium Sulphite; anhydrous (for photography)	586
UU-P-81	Blueprint paper, permanent- record (sensitized and un- sensitized). (Supersedes UU-P-83)	179
UU-P-86	Blueprint paper, semi-perman- ent-record (sensitized and unsensitized) (supersedes UU-P-88)	180

Specification Symbol	Title of Specification	Original F.S.B.No.
UU-P-91	Blueprint paper, temporary- record (sensitized and un- sensitized (supersedes UU- P-93)	181
UU-P-141	Brownprint paper, permanent- record (sensitized and un- sensitized (supersedes UU- P-143)	182
UU-P-416	Photographic black-line paper	-
UU-P-418	Photographic negative paper	-

CHRONOLOGICAL LISTS OF REFERENCES

The list of Bureau of Standards Publications is divided into two sections. In the first are given the Scientific, Technologic, and Research papers, and in the second section, articles appearing in the Technical News Bulletin. The T.N.B. is a monthly publication of the Bureau obtainable by annual subscription from the Superintendent of Documents. The articles appearing therein are brief reports of the progress being made in the various fields of the Bureau's work.

Consecutive numbers have been assigned to the references in the list of Outside Publications in order to facilitate the use of the Author and Subject indexes given at the end of this circular.

BUREAU OF STANDARDS PUBLICATIONS

1. Scientific, Technologic, and Research Papers.

B. of S. No.	Title of Paper	Authors	Date	Price
S132	Luminous Efficiency of the Firefly	Herbert E. Ives and W.W. Coblentz	8-09	5¢
S312	Wavelength Measure- ments in Spectra from 5600A to 9600A	W.F. Meggers	1-16-18	10¢
S318	The Application of Dicyanin to the Photo- graphy of Stellar Spectra	Paul W. Merrill	4-13-18	10¢
S385	A New Microphotometer for Photographic Ena- sities	W.F. Meggers and Paul D. Footo	6-30-20	5¢
S392	A Photographic Method of Detecting Changes in a Complicated Group of Objects	M.H. Stillman	7-31-20	5¢
S409	A New Method for the Measurement of Photo- graphic Filter Fact- ors	Raymond Davis	2-5-21	5¢
S422*	Studies in Color Sensitive Photo- graphic plates and Methods of Sensi- tizing by Bathing	F.M. Walters, Jr. and Raymond Davis	11-15-21	15¢

Much of the material in S422 was first published in the following Circular of the Bureau of Standards which is no longer available:

-	Color Sensitive Photographic Plates	(unsigned)	11-6-19	-
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B. of S. No.	Title of Paper	Authors	Date	Price
S439*	Sensitometry of Photographic Emulsions and a Survey of the Characteristics of Plates and Films of American Manufacture	Raymond Davis and F.M. Walters, Jr.	5-5-22	35¢

Much of the material in S439 is a combination of data first published in the following Photographic Circulars of the Bureau of Standards which are no longer available:

1	Testing of Photographic Emulsions and a Description of the Apparatus used in Photographic Sensitometry	Raymond Davis	1918	-
2	An Atlas of Photographic Emulsions	Raymond Davis and F.M. Walters, Jr.	9-3-20	(Confidential)
T217	Photomicrography of Paper Fibers	R.E. Lofton	8-2-22	5¢
S454	Action of Charred Paper on the Photographic Plate and a Method of Deciphering Charred Records	Raymond Davis	10-18-22	5¢
T255	A Camera for Studying Projectiles in Flight	H.L. Curtis W.H. Wadleigh and A.H. Sellman	3-19-24	10¢
S494	Aberrations of Long Focus Anastigmatic Photographic Objectives	A.H. Bennett	10-16-24	20¢
S508	Spark Photography and Its Application to Some Problems of Ballistics	Phillip P. Quayle	6-15-25	20¢

B. of S. No.	Title of Paper	Authors	Date	Price
S511	A Nonintermittent Sensitometer (Time Scale Exposure Machine) with Clock-Controlled Motor Drive	Raymond Davis	8-20-25	15¢
S517	A Special Camera for Photographing Cylindrical Surfaces	Raymond Davis	12-5-25	10¢
S528	Experimental Study of the Relation between Intermittent and Nonintermittent Sector-Wheel Photographic Exposures	Raymond Davis	5-18-26	20¢
RP20	Sensitization of Photographic Emulsions by Colloidal Materials	Burt H. Carroll and Donald Hubbard	10-28	10¢
R98	Photographic Paper (Recommended sizes)	Simplified Practice Recommendation	1929	10¢
RP134	The Effect of Light on Silver Chloride in Chemical Analyses	G.E.F. Lundell and J.I. Hoffman	1-30	5¢
RP173	Spectral Sensitization of Photographic Emulsions. (Notes on Bathing with Pinaeyanol-Pinaflavol Mixtures)	Burt H. Carroll and Donald Hubbard	5-30	5¢
RP183	A Comparison of Resolving Power and Sensitivity of Photographic Plates with Varying Development	Burt H. Carroll and Donald Hubbard	7-30	5¢
M114	Filters for the Reproduction of Sunlight and Daylight and the Determination of Color Temperature	Raymond Davis and K.S. Gibson	1-31	45¢

B. of S. No.	Title of Paper	Authors	Date	Price
RP340	The Photographic Emulsion- After Ripening	Burt H. Carroll and Donald Hubbard	8-31	10¢
RP355	An Experimental Study of Several Methods of Representing Photographic Sensitivity	Raymond Davis and G.K. Neeland	9-31	10¢
RP365	A Correlated Color Temperature for Illuminants	Raymond Davis	10-31	10¢
RP374	The Relative Spectral Energy Distribution and Correlated Color Temperature of the N.P.L. White-Light Standard	Raymond Davis and K.S. Gibson	11-31	5¢
RP376	The Photographic Emulsion: The Silver Ion-Gelatin Equilibrium	Burt H. Carroll and Donald Hubbard	11-31	5¢
RP378	Variation of Photographic Sensitivity with Different Light Sources	Raymond Davis and G.K. Neeland	11-31	5¢
RP427	The Optical Requirements of Airplane Mapping	I.C. Gardner	4-32	**
RP430	The Photographic Emulsion: The Silver Ion and Hydrogen Ion Concentrations and Sensitivity	Burt H. Carroll and Donald Hubbard	4-32	**
RP447	The Photographic Emulsion: Analyses for Non-Halide Silver and Soluble Bromide	Burt H. Carroll and Donald Hubbard	6-32	**

** Refer to the heading, "TO OBTAIN GOVERNMENT PUBLICATIONS".

2. Articles Appearing in the Technical News Bulletin.

T.N.B.

No.	Title of Article	Date	Page
99	A New Sensitometer	7-25	6
106	Prevention of Distortion in Lenses Used for Copying and Enlarging	2-26	6
123	Photographic Emulsion Investigations	7-27	2
127	Mechanism of Color Sensitization and Hypersensitization	11-27	5
138	Filters for Converting Artificial Light to Sunlight	10-28	143
147	Safeguarding Storage of Photographic Films	7-29	65
156	Davis-Gibson Mean Sunlight Filters	4-30	32
158	Resolving Power and Sensitivity and the Effect of Varying Development on Photographic Plates	7-30	60
161	Analysis of Photographic Emulsions	9-30	86
168	Sunlight and Daylight Filters	4-31	34
170	Camera for Photographing Surface of Bullets	7-31	62
172	Ripening of Photographic Emulsions	8-31	84
173	Methods of Representing Photographic Sensitivity	9-31	98
180	Permanent Photostat Paper	4-32	36
180	Photographic Developers	4-32	37
180	Further Studies of Photographic Emulsions	4-32	38
180	Optical Requirements for Airplane Mapping	4-32	38
182	Analytical Methods for Photograph- ic Emulsions	6-32	55

OUTSIDE PUBLICATIONS

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
1	Physical Review (abstract of lecture)	Optical and Photographic Methods for the Detection of Invisible Writing	I.G. Priest and E.P.T. Tyndall	8-19	<u>14</u> p.188
2	Journal of the Franklin Institute	Hypersensitizing Commercial Pan- chromatic Plates	S.M. Burka	1-20	<u>189</u> p.25
3	Journal of the Opti- cal Society of America and Review of Scientific In- struments (reprint of S385)	A New Micropho- tometer for Pho- tographic Densities	W.F. Meggers and P.D. Foote	1-20	<u>4,1</u> p.24
4	Journal of the Optic- al Society of Ameri- ca and Review of Scientific Instru- ments	Dyes for Photo- graphic Sensitizing	W.F. Meggers and E.J. Stimson	5-20	<u>4,3</u> p.91
5	Journal of the Opti- cal Society of America and Review of Scientific In- struments (reprinted as S409)	A New Method for Measurement of Photographic Fil- ter Factors	Raymond Davis	9-20	<u>4,5</u> p.300
6	The Photographic Journal (reprint of S409)	A New Method for Measurement of Photographic Fil- ter Factors	Raymond Davis	4-21	<u>61</u> p.168
7	Lefax Handbook (abstract of S422)	Color Sensitive Photographic Plates and Methods of Sensitizing by Bathing	F.M. Walters, Jr. and Raymond Davis	9-21	Dewey 722 Lefax 00
8	The British Journal of Photography (reprint of S422)	Studies in Color Sensitizing by Bathing	F.M. Walters, Jr. and Raymond Davis	7-14-22	<u>69</u> p.416
9	The British Journal of Photography (reprint of S409)	A New Method for Measurement of Photographic Filter Factors	Raymond Davis	7-21-22	<u>69</u> p.430

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
10	Journal of the Optical Society of America and Review of Scientific Instruments	Note on the Shrinkage of Photographic Films	H.L. Curtis	3-23	<u>7</u> ,3 p.275
11	The British Journal of Photography (reprint of S454)	Action of Charred Paper on the Photographic Plate and a Method of Deciphering Charred Records	Raymond Davis	4-6-23	<u>70</u> p.205
12	The British Journal of Photography (Reprint of S439)	Sensitometry of Photographic Emulsions and a Survey of the Characteristics of Plates and Films of American Manufacture	Raymond Davis and F.M. Walters, Jr.	8-17-23 8-24-23 8-31-23 9-7-23	<u>70</u> p.509 p.525 p.539 p.554
13	Journal of Physical Chemistry	Solarization and Photographic Reversal by Desensitizers	Burt H. Carroll	6-25	<u>29</u> p.693
14	Science et Industries Photographiques (abstract of 13)	Solarization and Photographic Reversal by Desensitizers	Burt H. Carroll	8-25	<u>5</u> ,8 p.139
15	The Chemical News and Journal of Industrial Science (abstract of S511)	A Nonintermittent Sensitometer	Raymond Davis	12-4-25	<u>131</u> p.354
16	Journal of Physical Chemistry	The Photochemical Oxidation of Leuco Bases	Burt H. Carroll	1-26	<u>30</u> p.130

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
17	Science et Industries Photographiques (translation of S511)	Sensitometer Non-Intermittent a Moteur Controle par Pendule	Raymond Davis	2-26	<u>6,2</u> p.24
18	Journal of the Optical Society of America and Review of Scientific Instruments	A Camera for Photographing the Interior of a Rifle Barrel	I.C. Gardner and F.A. Case	2-26	<u>12,2</u> p.159
19	Journal of the Optical Society of America and Review of Scientific Instruments	The Unit of Photographic Intensity (Report of O.S.A. Committee)	L.A. Jones, Chairman	6-26	<u>12,6</u> p.56
20	Science et Industries Photographiques (Translation of S517)	Appareil pour la Photographie des Surfaces Cylindriques	Raymond Davis	6-26	<u>6,6</u> p.115
21	Journal of the Optical Society of America and Review of Scientific Instruments	Sensitization for The Entire Visible Spectrum	B.H. Carroll	7-26	<u>13,1</u> p.35
22	Technische Rundschau (translation of S517)	Eine Spezialkamera Zum Photographieren von Zylinderflachen	Raymond Davis Trans. by Dr. Alfred Gradonwitz	8-18-26	<u>33,32</u>
23	Science et Industries Photographiques (translation of S528)	Influence des Poses Intermitentes sur l'action Photographiques	Raymond Davis	10-26	<u>6,10</u> p.179

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
24	Science et Industries Photographiques (abstract of 21)	Sensitization for the Entire Visible Spectrum	B.H. Carroll	10-26	<u>6,10</u> p.187
25	Journal of the Optical Society of America and Review of Scientific Instruments (abstract of lecture)	Reproducible Liquid Filters for the Production of "White Light"	Raymond Davis and K.S. Gibson	2-27	<u>14,2</u> p.135
26	Journal of the Optical Society of America and Review of Scientific Instruments	The Distortion of Some Typical Photographic Objectives	A.H. Bennett	3-27	<u>14,3</u> p.235
27	Journal of the Optical Society of America and Review of Scientific Instruments	The Compensation of Distortion in Objectives for Airplane Photography	I.C. Gardner and A.H. Bennett	3-27	<u>14,3</u> p.245
28	Science et Industries Photographiques (abstract of 25)	Filtres Colored pour "Lumiere Blanche"	Raymond Davis and K.S. Gibson	5-27	<u>7,5</u> p.91
29	Physical Review (abstract of lecture).	Reproducible Liquid Filters for the Determination of the Color Temperature of Incandescent Lamps	Raymond Davis and K.S. Gibson	6-27	<u>29,2</u> p.916

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
30	Journal of Physical Chemistry	The Photographic Emulsion I. The Comparison of Emulsions Made with Different Bromides	B.H. Carroll and Donald Hubbard	6-27	<u>31</u> p.906
31	Science et Industries Photographiques (abstract of 30)	The Photographic Emulsion I. The Comparison of Emulsions Made with Different Bromides	B.H. Carroll and Donald Hubbard	8-27	<u>7</u> p.146
32	Journal of the Optical Society of America and Review of Scientific Instruments (abstract of lecture)	Filters for the Reproduction of Sunlight and the Determination of Color Temperature	Raymond Davis and K.S. Gibson	5-28	<u>16,5</u> p.33
33	Proc. 7th Int. Cong. Phot., London	The Unit of Photographic Intensity- Report of the O.S.A. Committee on the Unit of Photographic Intensity	L.A. Jones, Chairman	7-28	p.152
34	Proc. 7th Int. Cong. Phot., London	Artificial Sunlight for Photographic Sensitometry	Raymond Davis and K.S. Gibson	7-28	p.161
35	Science et Industries Photographiques (translation of 34)	Lumiere Solaire Artificielle pour Sensitometrie	Raymond Davis and K.S. Gibson	9-28	<u>8,9</u> p.158
36	British Journal of Photography (reprint of RP20)	Sensitization of Emulsions by Colloid Materials	B.H. Carroll and Donald Hubbard	11-23-28 11-30-28 12-7-28	p.71 p.72 p.72

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37	Transactions of the Society of Motion Picture Engineers	Artificial Sunlight for Photographic Sensitometry	Raymond Davis and K.S. Gibson	1928	<u>12,33</u> p.225
38	Journal of the Optical Society of American and Review of Scientific Instruments	Resolutions Dealing with the Photographic Unit of Intensity, Presented at the 7th International Congress of Photography- Report of the O.S.A. Committee on Standards of Photographic Intensity	L.A. Jones, Chairman	3-29	<u>18,3</u> p.162
39	Journal of the Optical Society of America and Review of Scientific Instruments (abstract of lecture)	Methods for Determining the Color of Sunlight and Daylight	K.S. Gibson and Raymond Davis	6-29	<u>18,6</u> p.442
40	Photographische Industrie (translation of RP20)	Sensitization of Emulsions by Colloid Materials	B.H. Carroll and Donald Hubbard	1929	<u>27</u> p.321
41	Journal of the Radiological Society of North America (Radiology)	Safeguarding the Storage of Photographic, Motion Picture, and X-ray Films	C.R. Brown	5-30	<u>14</u> p.454
42	British Journal of Photography	Sensitizing with Pinacyanol-Pinacflavol Mixtures	B.H. Carroll and Donald Hubbard	7-18-30	<u>77</u> p.429
43	Science et Industries Photographiques (abstract of RP183)	A Comparison of Resolving Power and Sensitivity of Photographic Plates with Varying Development	B.H. Carroll and Donald Hubbard	11-30 (2)	<u>1,11</u> p.412

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
44	Science et Industries Photographiques (abstract of M114)	Filters pour la Reproduction de la Lumiere Sol-aire (etalon Sensitometrique)	Raymond Davis	5-31 (2)	<u>2,5</u> p.167
45	Journal of the Optical Society of America	A Note on the "Speed" of Photographic Emulsions	Raymond Davis and G.K. Neeland	7-31	<u>21,7</u> p.416
46	Science et Industries Photographiques (translation of 45)	Expression de la Sensibilite des Emulsions Photographiques	Raymond Davis and G.K. Neeland	9-31 (2)	<u>2,9</u> p.334
47	Journal of the Optical Society of America	The Photographic Unit of Intensity (Report of O.S.A. Committee)	K.S. Gibson, Chairman	10-31	<u>21,10</u> p.654
48	Science et Industries Photographiques (abstract of RP340)	The Photographic Emulsion- After Ripening	B.H. Carroll and Donald Hubbard	12-31 (2)	<u>2</u> p.444
49	Journal of Chemical Education	The Preparation of Photographic Emulsions	B.H. Carroll	12-31	<u>8,12</u> p.234
50	Chemical Weekblad (abstract of M114)	Filters for the Reproduction of Sunlight and Daylight and the Determination of Color Temperature	Raymond Davis and K. S. Gibson	1-9-32	
51	Science et Industries Photographiques (translation of RP355)	Etude experimontale de quelques Methodes d'expression de la sensibilite	Raymond Davis and G.K. Neeland	1-32 (2)	<u>3,1</u>

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
52	Science et Industries Photographiques (translation of RP376)	L'emulsion photographique: L'equilibre Gelatinolions Argent	B.H. Carroll and Donald Hubbard	4-32 (2)	<u>3,4</u> p.124
53	Science et Industries Photographiques (translation of RP378)	Variations de la Sensibilitie Photographique vis-a-vis de diverses sources de lumiere	Raymond Davis and G.K. Neeland	4-32 (2)	<u>3,4</u> p.128
54	Journal of the Society of Motion Picture Engineers	The Mechanism of Hypersensitization	B.H. Carroll and Donald Hubbard	5-32	<u>18,5</u> p.600
55	Journal of the Society of Motion Picture Engineers (reprint of RP378)	Variation of Photographic Sensitivity with Different Light Sources	Raymond Davis and G.K. Neeland	6-32	<u>18,6</u> p.732
56	Journal of the Society of Motion Picture Engineers (rewrite of RP355)	Variation of Photographic Sensitivity with Development Time	Raymond Davis and G.K. Neeland	6-32	<u>18,6</u> p.742
57	Kongressband, 8 Internationaler Photographischer Kongress (translation of RP355)	Experimentelle Untersuchung Verschiedener Methoden, die Photographische Empfindlichkeit Darzustellen	Raymond Davis and G.K. Neeland	(in press)	

SUBJECT INDEX

In the following index the Bureau of Standards Publications are indicated by their official numbers. Papers appearing in other than Government publications are designated by the reference numbers given in the preceding list of Outside Publications. These numbers are inclosed in parenthesis to distinguish them from Government publications.

GENERAL PHOTOGRAPHY

Apparatus:

- Abberations of long focus lenses S494
- Camera for photographing bullets in flight T255
- Camera for photographing the interior of rifle barrels (18)
- Camera for photographing cylindrical surfaces S517, (20), (22)
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Applications:

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Photographic method of detecting changes in a complicated
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Photomicrography:

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- Spark photography S508
- Developers for fine grain images RP183, (43)
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