

TABLE OF CONTENTS

COMM. No.	TITLE	AUTHOR	PAGE
320	The Electrical Deposition of Rubber	<i>S. E. Sheppard</i>	7
321	An Electrical Solution-Mixing Device	<i>K. C. D. Hickman</i> <i>D. E. Hyndman</i>	12
322	Antagonism of Radiations in Photochemical and Photographic Reactions	<i>S. E. Sheppard</i>	20
323	Molecular Orientation at Surfaces of Solids. I and II	<i>A. H. Nietz</i>	39
324	A Trial and Error Method of Preparing a Motion Picture Sensitometer Tablet	<i>C. E. Ives</i> <i>J. I. Crabtree</i>	49
325	Oil Spots on Motion Picture Film	<i>G. E. Matthews</i> <i>J. I. Crabtree</i>	54
327	The Photographic Reflecting Power of Colored Objects	<i>L. A. Jones</i>	62
329	Factors which Affect the Contrast of a Lens Image in the Motion Picture Camera	<i>C. Tuttle</i> <i>H. E. White</i>	68
330	The Lubrication of Motion Picture Film	<i>J. I. Crabtree</i> <i>C. E. Ives</i>	75
331	A Compact Motion Picture Densitometer	<i>J. G. Capstaff</i> <i>R. A. Purdy</i>	85
332	Recent Advances in Cellulose and Starch Chemistry	<i>H. LeB. Gray</i> <i>C. J. Staud</i>	88
333	Vectorial Treatment of Refraction of Skew Rays by a Prism	<i>L. Silberstein</i>	89
334	The Dependence of the Resolving Power of a Photographic Material upon the Con- trast in the Object	<i>O. Sandvik</i>	92
335	Light Filters for the Isolation of Narrow Spectral Regions	<i>L. A. Jones</i>	100
336	Contribution to the Theory of Photographic Exposure	<i>L. Silberstein</i>	106
337	The Optical Sensitizing of Silver Halide Emulsions. I.—The Adsorption of Ortho- chrome T to Silver Bromide	<i>S. E. Sheppard</i> <i>H. Crouch</i>	119
338	The Covering Power of Photographic Silver Deposits. I	<i>S. E. Sheppard</i> <i>A. Ballard</i>	128
339	A New Effect of Chromic Acid on Photo- graphic Plates	<i>E. P. Wightman</i> <i>S. E. Sheppard</i>	146
340	Quantitative Relations of the Counter- current Washing Process	<i>L. Silberstein</i>	154
341	Motion Photomicrographs of the Progress of Development of a Photographic Image	<i>C. Tuttle</i> <i>A. P. H. Trivelli</i>	162
343	McBain-Bakr Balance for Sorption of Vapors by Fibrous and Film Materials	<i>P. T. Newsome</i>	165

TABLE OF CONTENTS—Continued

COMM. No.	TITLE	AUTHOR	PAGE
344	The Dependence of the Resolving Power of a Photographic Material on the Wavelength of Light	{ <i>O. Sandvik</i> <i>G. P. Silberstein</i>	166
345	Laboratory Humidity Cabinet.	{ <i>I. C. Matthews</i> <i>A. M. Burgess</i>	171
346	On the Relation between Time and Intensity in Photographic Exposure. VI	{ <i>L. A. Jones</i> <i>V. C. Hall</i>	172
348	A Machine for the Automatic Development of Sensitometric Strips	{ <i>S. E. Sheppard</i> <i>H. Crouch</i>	176
349	Effect of Environment on Photographic Sensitivity. I	{ <i>S. E. Sheppard</i> <i>E. P. Wightman</i>	181
350	Systematic Nomenclature in Photographic Sensitometry	<i>L. A. Jones</i>	192
351	The Expression of Plate Speed in Terms of Minimum Useful Gradient	{ <i>L. A. Jones</i> <i>M. E. Russell</i>	195
352	On the Measurement of Resolving Power of Photographic Materials	<i>O. Sandvik</i>	199
353	A High Intensity Time-Scale Sensitometer	{ <i>L. A. Jones</i> <i>G. A. Chambers</i>	208
354	The Reproduction of Mobility of Form and Color by the Motion Picture Kaleidoscope	{ <i>L. A. Jones</i> <i>C. Tuttle</i>	212
355	Intensification of the Photographic Latent Image	{ <i>E. P. Wightman</i> <i>R. F. Quirk</i>	218
356	Notes on Making Duplicate Negatives	{ <i>C. E. Ives</i> <i>E. Huse</i>	220
357	Grain Growth in Silver Halide Precipitates	{ <i>S. E. Sheppard</i> <i>R. H. Lambert</i>	226
358	Photographic Characteristics of Motion Picture Studio Light Sources	{ <i>L. A. Jones</i> <i>M. E. Russell</i>	232
366	The Fogging by Acids and Oxidizing Agents and the Intensification of Photographic Latent Image	<i>E. P. Wightman</i>	244
372	Dye Toning with Single Solutions	{ <i>J. I. Crabtree</i> <i>C. E. Ives</i>	249
373	A Photometer for the Measurement of Low Illuminations	{ <i>L. A. Jones</i> <i>E. M. Lowry</i>	254
374	A Study of Ground Noise in the Reproduction of Sound by Photographic Methods	<i>O. Sandvik</i>	260