

ber, and thickness of the band of explosive.—Kr. **Birkeland** and M. **Skolem**: Calculation of the lines of equal intensity in the zodiacal light, on the supposition that it arises from the light diffused by a nebula of electrons or of radiant matter of solar origin. The formulæ deduced are illustrated graphically in seven diagrams.—H. **Bourget**: Partial eclipse of the sun of August 21 observed at the Observatory of Marseilles. The first and second contacts were observed under good conditions.—D. **Saint-Blancat** and L. **Montange- rand**: Observation of the partial eclipse of the sun of August 21, 1914, at the Observatory of Toulouse. The times of first and second contacts are given.—I. **Tarazona** and V. **Marti**: Observation of the eclipse of the sun of August 20-21, 1914, made at the astronomical observatory of the University of Valentia (Spain).—J. J. **Landerer**: The total eclipse of the sun of August 20-21, 1914.—L. **Bouchet**: New determinations of Poisson's coefficient for vulcanised india-rubber. The pressures were produced by electrostatic means. The value found for Poisson's coefficient was appreciably equal to 0.5, signifying that india-rubber is incompressible.

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NO. 2342, VOL. 94]

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CONTENTS.

| | PAGE |
|---|------|
| The Cretaceous Flora. By Prof. A. C. Seward, F.R.S. | 55 |
| Electrostatics and Magnetism. By P. P. | 56 |
| Botany and Nature Study. By F. C. | 57 |
| Our Bookshelf | 58 |
| Letters to the Editor:— | |
| The Age of a Herring.—Prof. D'Arcy W. Thompson, C.B. | 60 |
| The Red Flash.—C. T. Whitmell | 61 |
| Openings for British Chemical Manufacturers. By Dr. J. C. Cain | 61 |
| Notes | 62 |
| Our Astronomical Column:— | |
| Comet 1913f (Delavan) | 65 |
| Further News of Eclipse Parties | 65 |
| Vertical Circle Observations at the U.S. Naval Observatory | 66 |
| Parallaxes of the Brighter Galactic Helium Stars | 66 |
| Papers on Invertebrates. By R. L. | 66 |
| Official Fishery Publications. By J. J. | 67 |
| Water Supply | 68 |
| The Australian Meeting of the British Association— | |
| Section H.—Anthropology.—Opening Address by Sir Everard im Thurn, C.B., K.C.M.G., President of the Section | 68 |
| Section I.—Physiology.—Opening Address by Prof. Benjamin Moore, M.A., D.Sc., F.R.S., President of the Section | 74 |
| University and Educational Intelligence | 80 |
| Societies and Academies | 81 |
| Books Received | 82 |

Editorial and Publishing Offices:

MACMILLAN & CO., LTD.,
ST. MARTIN'S STREET, LONDON, W.C.

Advertisements and business letters to be addressed to the Publishers.

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.