which the author erects two new genera—Disichthys and Peleichthys—and three new species—*Acrolepis addamisi, Disichthys kimberleyensis,* and *Peleichthys kimberleyensis*. The fossils occur on slabs of sandstone which were taken from the Wesselton and De Beers Mines, and from the absence of conspicuous sandstones in the Ecca beds of the vicinity, and the occurrence in another slab of *Chelyoposaurus williamsi,* they are in all probability of Beaufort age. Denudation has removed all trace of the parent rocks from the locality.—W. A. D. **Rudge**: The daily range of atmospheric potential gradient at Bloemfontein and the influence of dust storms. An account is given of observations at Bloemfontein between July and December, 1912, with a Bendorff recording electrometer. The values of the potential gradient at hourly intervals are given for the whole period, and curves showing the daily range of the potential gradient are given for selected cases. These curves show (1) the normal range on clear calm days; (2) that on days when some dust was observed; (3) that on very dusty days; and (4) some special cases. The normal curves are similar to those taken in other parts of the world, but those for dusty days show great differences. In class (2) the dust is present in quantity sufficient to keep the potential almost at zero whilst in (3) for a considerable part of the day there is a very strong negative potential gradient amounting to thousands of volts per metre. This negative result is caused by the clouds of fine siliceous dust raised by the wind, as has been shown by the author in previous communications. A negative potential gradient was never recorded unless dust was blowing or rain falling. Wind alone had practically no influence. The rain which fell during the period under observation was invariably negatively charged.—J. C. **Beattie**: Further magnetic observations in South Africa. Results of observations in various parts of South Africa during 1910–13. The greater number of the observations was carried out in the western Transvaal, British Bechuanaland, and Bushmanland. In addition a number of repeat stations were re-occupied.—J. C. **Beattie**: Magnetic maps of the western and northern parts of the Union of South Africa and of Great Namaqualand for the epoch July 1, 1908. Maps are given showing the true isogonics, the true isoclinals, and the true lines of equal horizontal intensity for the above region.—T. **Muir**: Note on Clebsch's theorem.

BOOKS RECEIVED.

The Microtomist's Vade-Mecum. By A. B. Lees. Seventh edition. Pp. x+526. (London: J. and A. Churchill.) 15*s.* 6*d.* net.

Handwörterbuch der Naturwissenschaften. Edited by E. Korschelt and others. Lief. 47–53. (Jena: Gustav Fischer.) 2.50 marks each.

Le Froid industriel. By Prof. L. Marchis. Pp. 328. (Paris: Félix Alcan.) 3.50 francs.

A Plea for the Younger Generation. By Cosmo Hamilton. Pp. 63. (London: Chatto and Windus.) 2*s.* 6*d.* net.

Coast Erosion and Protection. By E. R. Matthews. Pp. xiv+147+32 plates. (London: C. Griffin and Co., Ltd.) 10*s.* 6*d.* net.

A New School Geometry. By R. Deakin. Part ii. Pp. viii+161–292. (London: Mills and Boon, Ltd.) 1*s.* 6*d.*

The Theory and Design of Structures. By Ewart S. Andrews. Third edition. Pp. xii+618. (London: Chapman and Hall, Ltd.) 9*s.* net.

General Chemistry Laboratory Manual. By Prof. J. C. Blake. Pp. x+166. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 8*s.* net.

The English Convict: a Statistical Study. By Dr. C. Goring. Pp. 440. (London: H.M. Stationery Office; Wyman and Sons, Ltd.) 9*s.*

A Text-Book of Biology. By Prof. W. M. Smallwood. Pp. 285+13 plates. (London: Baillière, Tindall, and Cox.) 10*s.* 6*d.* net.

Die Physik der bewegten Materie und die Relativitätstheorie. By Dr. Max B. Weinstein. Pp. xii+424. (Leipzig: J. A. Barth.) 17 marks.

The Principle of Least Action. By P. E. B. Jourdain. Pp. 83. (London and Chicago: Open Court Publishing Co.) 1*s.* 6*d.* net.

CONTENTS.

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.